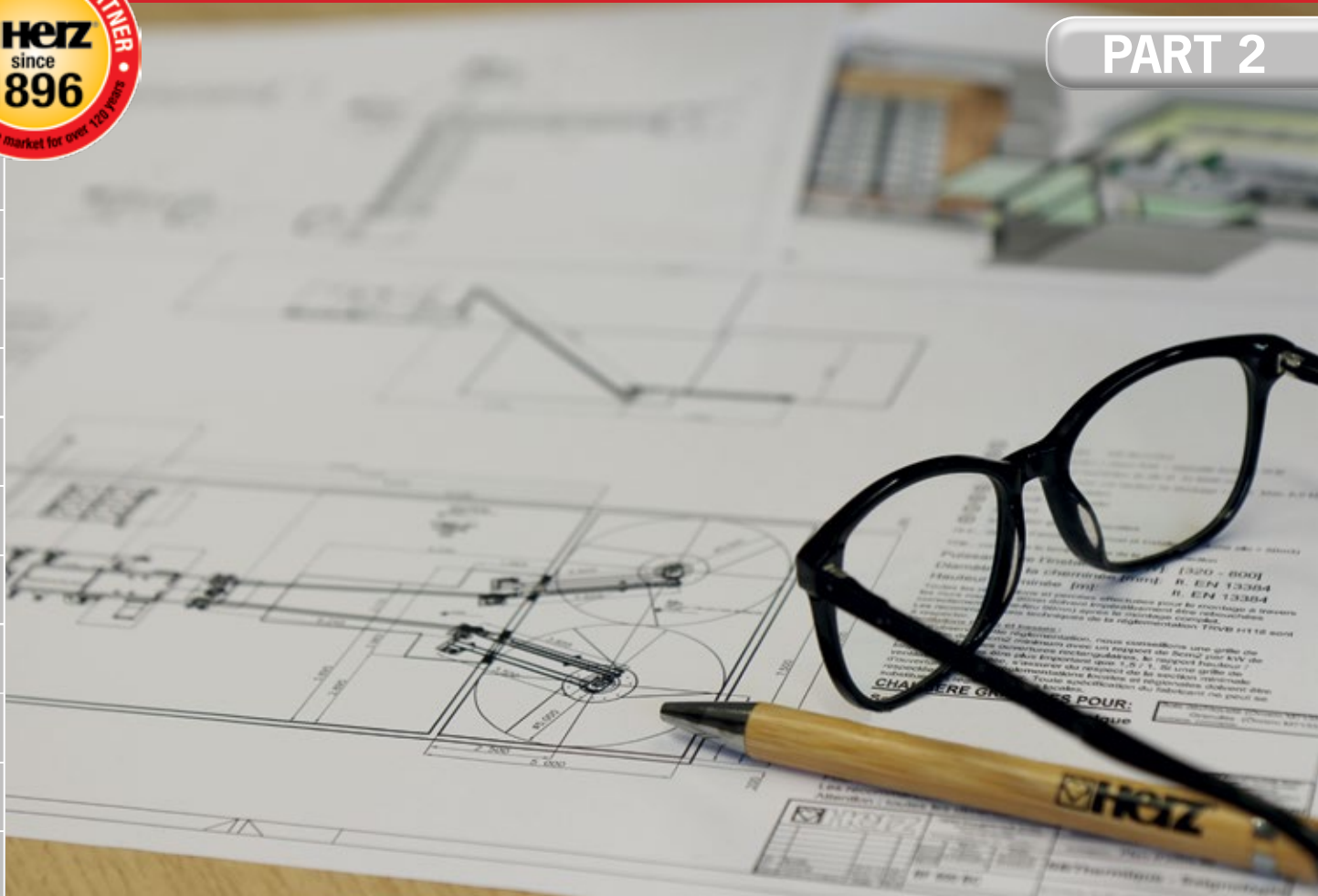




PART 2



HERZ Energietechnik GmbH

PART 1:

Log gasification boiler18-40 kW
Combination boiler20-40 kW
Pelletboiler10-60 kW
Pelletboiler with condensing technology...10-101 kW
Woodchip-/pelletboiler20-1.500 kW
Woodchip boiler with condensing technology....30-40 kW
Room-discharge systems
Buffer/hot water tanks/hot water preperation

PART 2:

Woodchip-/pellet boiler20-1.500 kW
Room-discharge systems
Woodchip filling system
Flue gas condensation
Buffer/hot water tanks/hot water preperation



GENERAL NOTES

Basic information:

The terms and conditions of business and delivery of HERZ Energietechnik GmbH in the latest valid version, as well as the agreements confirmed with the acceptance of the order, shall apply to all business transactions.

Alterations:

We reserve the right to make alternations of any kind and in the event of errors. Most of pictures are illustrations.

Validity of the price list:

This price list is valid from April 2021.

With this pricelist all previous price lists and sales documents for this product range lose their validity. Remaining stocks will be reduced.

Prices:

Unless otherwise indicated, all prices are list prices excluding VAT.

We reserve the right of errors, misprint, typographical failures and technical modifications! Data about our products are not guaranteed characteristics. Mentioned and illustrated discharge systems are system-dependent and only available as an option. In case of discrepancies between documents with regard to the scope of supply the information in the current offer is valid. All images are representations as a symbol and serve only to illustrate our products. Current information and data can be found in the members area at www.herz-energie.at/membersbereich.

Overview of the DISCOUNT GROUPS:

| | |
|--|------|
| firematic 20-101 | C1 |
| firematic 120-501 | C2 |
| BioFire 500-1500 | D2 |
| Discharge systems, storage room filling systems | L |
| Accessories | G, Z |
| Hot water tanks, buffer tanks, fresh water modules | H |
| Spare parts | M |

Woodchip-/pelletboilers

BIOMASS BOILERS AND ACCESSORIES

| | |
|----------------------------------|-------|
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| Back flow sets | 12-13 |
| Central ash discharge..... | 14-17 |
| BioFire..... | 18-20 |
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| Flue gas dust extractor | 22-25 |
| Back flow sets | 26 |
| Accessories..... | 27 |

1

ROOM-DISCHARGE SYSTEMS

| | |
|--|-------|
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| Climbing screw with separate drive firematic | 32-33 |
| Agitator system with vertical transport screw firematic..... | 34-35 |
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| Transport screw firematic / BioFire | 48-49 |
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2

STORAGE ROOM FILLING SYSTEMS

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3

ACCESSORIES

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4

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5

FORMS

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6

TERMS AND CONDITIONS

| | |
|--|-------|
| General terms and conditions of business and delivery..... | 88-89 |
|--|-------|

7

firematic

Biomass boiler for wood chips and pellets

| | for wood chips | for pellets |
|---------------|----------------|-------------|
| firematic 20 | 6,0-20 kW | 5,9-20 kW |
| firematic 35 | 6,0-35 kW | 5,9-35 kW |
| firematic 45 | 12,1-45 kW | 12,6-45 kW |
| firematic 60 | 12,1-60 kW | 12,6-60 kW |
| firematic 80 | 23,2-80 kW | 23,2-80 kW |
| firematic 100 | 23,2-99 kW | 23,2-99 kW |
| firematic 101 | 23,2-101 kW | 23,2-101 kW |
| firematic 120 | 35,1-120 kW | 34,8-120 kW |
| firematic 130 | 35,1-130 kW | 34,8-130 kW |
| firematic 149 | 35,1-149 kW | 34,8-149 kW |
| firematic 151 | 35,1-151 kW | 34,8-151 kW |
| firematic 180 | 35,1-180 kW | 34,8-180 kW |
| firematic 199 | 35,1-199 kW | 34,8-199 kW |
| firematic 201 | 35,1-201 kW | 34,8-201 kW |



Wood chips M40 (water content max. 40 %) according to
 – EN ISO 17225-4: Property class A1, A2, B1, and particle size P16S; from 80 kW: P16S & P31S

Wood pellets (Ø 6mm) according to
 – EN ISO 17225-2: Property class A1; from 80 kW: A1 & A2
 – ENplus, DINplus or Swisspellet



Energy efficiency class (valid for firematic 20-60):



| | |
|---|---|
| Boiler body with insulation | ✓ |
| Silencer set for boiler body | ✓ |
| Single stoker screw up to 101 kW or double stoker screw from 120 kW | ✓ |
| Safety heat exchanger | ✓ |
| Speed controlled ID fan | ✓ |
| Automatic burner cleaning via tipping grate up to 60 kW | |
| Step-/moving grate burning chamber from 80 to 201 kW | ✓ |
| - automatic cleaning of the grate elements | |
| - automatic cleaning of the burning ash via tipping grate | |
| Automatic heat exchanger cleaning | ✓ |
| Residual heat usage | ✓ |
| Splitted 2-zone combustion chamber | ✓ |
| Back-burn safety unit BFP-flap with self-closing fire protection flap | ✓ |
| Level monitored interim hopper | ✓ |
| Automatic ignition using hot air blower | ✓ |
| Automatic ash discharge of burning ash and fly ash into front ashbox | ✓ |
| Sensor set inclusive | ✓ |



Controller T-Control
 Microprocessor-driven operating unit
 with Touch-Display

firematic 20-101

firematic 120-201

| | | |
|--|---|---|
| Combustion control | ✓ | ✓ |
| Outside temperature regulated control for 1 mixed heating circuit) (outside sensor inclusive) | ✓ | |
| Buffer management module | ✓ | ✓ |
| Control for domestic hot water preparation (via domestic hot water boiler or buffer tank with fresh water module) | ✓ | |
| Control for back flow set (motor mixing valve and pump) | ✓ | ✓ |
| Motor valve control for fast-run heating of the heating circuits during the buffer loading | ✓ | ✓ |
| Lambda probe control (controls the combustion air and fuel input) | ✓ | ✓ |



With the extension modules it is possible to realise several possibilities (due to customers request and existing hydraulic system) and build up a complete heating control system.

In heat generators with T-Control following
 extension modules are possible:

firematic 20-101: 2 internal and 30 external modules
 firematic 120-201: 4 internal and 30 external modules

HERZ firematic T-Control LEFT

Art. No.

€

G

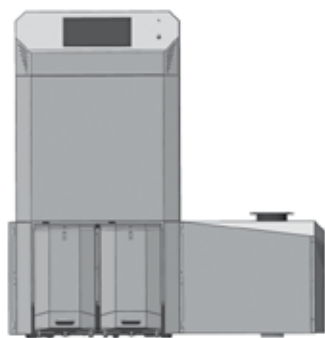


| | | |
|--------------------|-------------|----|
| HERZ firematic 20 | H030250-015 | C1 |
| HERZ firematic 35 | H030350-015 | C1 |
| HERZ firematic 45 | H030450-015 | C1 |
| HERZ firematic 60 | H030650-015 | C1 |
| HERZ firematic 80 | H030850-015 | C1 |
| HERZ firematic 100 | H030950-015 | C1 |
| HERZ firematic 101 | H031050-015 | C1 |
| HERZ firematic 120 | H031250-015 | C2 |
| HERZ firematic 130 | H031350-015 | C2 |
| HERZ firematic 149 | H031495-015 | C2 |
| HERZ firematic 151 | H031550-015 | C2 |
| HERZ firematic 180 | H031850-015 | C2 |
| HERZ firematic 199 | H031995-015 | C2 |
| HERZ firematic 201 | H032500-015 | C2 |

HERZ firematic T-Control RIGHT

Art. No.

G



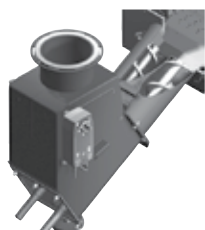
| | | |
|--------------------|-------------|----|
| HERZ firematic 20 | H030200-015 | C1 |
| HERZ firematic 35 | H030300-015 | C1 |
| HERZ firematic 45 | H030400-015 | C1 |
| HERZ firematic 60 | H030600-015 | C1 |
| HERZ firematic 80 | H030800-015 | C1 |
| HERZ firematic 100 | H030900-015 | C1 |
| HERZ firematic 101 | H031000-015 | C1 |
| HERZ firematic 120 | H031200-015 | C2 |
| HERZ firematic 130 | H031300-015 | C2 |
| HERZ firematic 149 | H031490-015 | C2 |
| HERZ firematic 151 | H031500-015 | C2 |
| HERZ firematic 180 | H031800-015 | C2 |
| HERZ firematic 199 | H031990-015 | C2 |
| HERZ firematic 201 | H032000-015 | C2 |

Accessories

Art. No.

€

G



Surcharge for stoker screw motor 400 V (3-phase) incl. change of rotation for firematic 120-201

for new boilers X000143-000 C2

for an existing boiler (retrofit) X000143-000A C2

firematic

Biomass boiler for wood chips and pellets

| | for woodchips | for pellets |
|---------------|---------------|--------------|
| firematic 249 | 69,6-249 kW | 74,4-256 kW |
| firematic 251 | 69,6-251 kW | 74,4-256 kW |
| firematic 299 | 69,6-299 kW | 74,4-299 kW |
| firematic 301 | 69,6-301 kW | 74,4-301 kW |
| firematic 349 | 103,9-349 kW | 104-349 kW |
| firematic 351 | 103,9-351 kW | 104-351 kW |
| firematic 399 | 103,9-399 kW | 104-399 kW |
| firematic 401 | 103,9-401 kW | 104-401 kW |
| firematic 499 | 103,9-499 kW | 103,9-499 kW |
| firematic 501 | 103,9-540 kW | 104-540 kW |



Illustration: firematic 249-301

Illustration: firematic 349-501



Wood chips M40 (water content max. 40 %) according to
 – EN ISO 17225-4: Property class A1,A2, B1 and particle size P16S, P31S

Wood pellets (Ø 6mm) according to
 – EN ISO 17225-2: Property class A1, A2
 – ENplus, DINplus or Swisspellet

| | |
|---|---|
| Boiler body with insulation | ✓ |
| Silencer set for boiler body | ✓ |
| Double stoker screw with geared drive | ✓ |
| Safety heat exchanger | ✓ |
| Speed controlled ID fan | ✓ |
| Step-/moving grate burning chamber | |
| - automatic cleaning of the grate elements | ✓ |
| - automatic cleaning of the burning ash via tipping grate | |
| Automatic heat exchanger cleaning | ✓ |
| Residual heat usage | ✓ |
| Splitted 2-zone combustion chamber | ✓ |
| Back-burn safety unit BFP-flap with self-closing fire protection flap | ✓ |
| Level monitored interim hopper | ✓ |
| Automatic ignition using hot air fans | ✓ |
| Automatic ash discharge of burning ash and fly ash into front ashbox | ✓ |
| Sensor set inclusive | ✓ |



Control T-Control
 Microprocessor-driven operating unit
 with Touch-Display

| | |
|--|---|
| Combustion control | ✓ |
| Buffer management module | ✓ |
| Control for back flow set (motor mixing valve and pump) | ✓ |
| Motor valve control for fast-run heating of the heating circuits during the buffer loading | ✓ |
| Lambda probe control (controls the combustion air and fuel input) | ✓ |



With the extension modules it is possible to realise several possibilities (due to customers request and existing hydraulic system) and build up a complete heating control system.
 In heat generators with T-Control following extension modules are possible: 4 internal modules und 30 external modules

HERZ firematic T-Control LEFT

Art. No.

€

G



| | | |
|--------------------|-------------|----|
| HERZ firematic 249 | H032495-015 | C2 |
| HERZ firematic 251 | H032551-015 | C2 |
| HERZ firematic 299 | H032995-015 | C2 |
| HERZ firematic 301 | H033501-015 | C2 |
| HERZ firematic 349 | H033495-015 | C2 |
| HERZ firematic 351 | H033515-015 | C2 |
| HERZ firematic 399 | H033995-015 | C2 |
| HERZ firematic 401 | H034015-015 | C2 |
| HERZ firematic 499 | H034995-015 | C2 |
| HERZ firematic 501 | H035015-015 | C2 |

HERZ firematic T-Control RIGHT

Art. No.

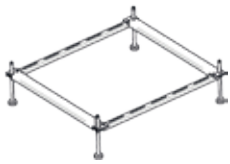




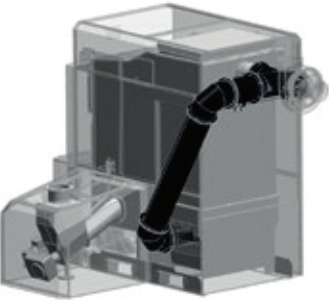
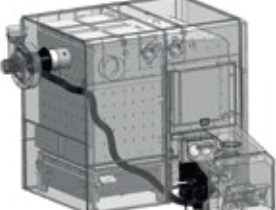
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| | | |
|--------------------|-------------|----|
| HERZ firematic 249 | H032490-015 | C2 |
| HERZ firematic 251 | H032501-015 | C2 |
| HERZ firematic 299 | H032990-015 | C2 |
| HERZ firematic 301 | H033001-015 | C2 |
| HERZ firematic 349 | H033490-015 | C2 |
| HERZ firematic 351 | H033510-015 | C2 |
| HERZ firematic 399 | H033990-015 | C2 |
| HERZ firematic 401 | H034010-015 | C2 |
| HERZ firematic 499 | H034990-015 | C2 |
| HERZ firematic 501 | H035010-015 | C2 |

WOOD CHIPS & PELLETS


firematic




| Accessories | Art. No. | € | G |
|---|--|-------------|---------------------|
|  | <p>Lifting aid for firestar 18-40, pelletfire 20-40, pelletstar 10-60, pelletstar CONDENSATION 10-30, firematic 20-101</p> <p>This makes it easier to lift the product off the pallet. (net, without discount)</p> | K030201-625 | - |
|  | <p>Thermal valve for safety heat exchanger Opening temperature: 95 °C, 3/4" internal thread</p> | 4080216-026 | Z |
|  | <p>Pressure switch incl. cable (length 5 m) Range of adjustment 0-6 bar, output signal 4-20 mA</p> | 4050070-758 | Z |
|  | <p>Boiler Safety Group KSG 1" until 50 kW, consisting of:</p> <ul style="list-style-type: none"> – 1" connection, pressure relief valve 1/2" set pressure 3 bar – automatic air vent, pressure gauge, stop valve, insulation cover <p>The maximum working temperature is 110 °C. It is not suitable for steam!</p> | 4171200-100 | Z |
|  | <p>Surcharge cell wheel sluice for new boilers (as an alternative to the BFP-flap)</p> | | |
| | <p>firematic 120-301</p> | X000146-000 | C2 |
| | <p>firematic 349-501</p> | X000146-001 | C2 |
|  | <p>Cell wheel sluice up to 1.000 kW (with rubber lips) Necessary for pneumatically filled silos for air distinction.</p> | H071808-800 | Z |
| | <p>Adapter big for cell wheel sluice 20-501 (2 pcs. necessary)</p> | H051508-820 | Z |
|  | <p>HiLowVe heat exchanger bypass system consisting of:</p> <ul style="list-style-type: none"> – Pipe connection between dispersion zone and boiler outlet – Regulating flap in the pipe connection – Software extension – Control box elements <p>Insulation of the HiLowVe pipe has to be done on site!</p> | | |
| | <p>firematic 120-201</p> | E050200-000 | Z |
| | <p>firematic 249-301</p> | E050300-000 | Price on request! Z |
| | <p>firematic 349-501</p> | E050500-000 | Z |
|  | <p>Surcharge exhaust gas recirculation</p> | | |
| | <p>firematic 249-301</p> | H033008-900 | C2 |
| | <p>firematic 349-501</p> | H035008-950 | C2 |

WOOD CHIPS & PELLETS




firematic

Accessories

| Splitted turbulators | | | | Art. No. | € | Art. No. | € | G |
|---|----------------------|-------|----|--|---------|---|---|---|
|  | Splitted turbulators | | | for an existing boiler (retrofit), price per built-in set* | | SURCHARGE for new boilers, price per built-in set | | |
| | firematic 20,35 | front | 2 | H030307-940 | 214,- | H030307-940A | | Z |
| | | rear | 1 | H030307-950 | 181,- | H030307-950A | | Z |
| | firematic 45,60 | front | 2 | H030507-940 | 290,- | H030507-940A | | Z |
| | | rear | 1 | H030507-950 | 229,- | H030507-950A | | Z |
| | firematic 80-101 | front | 1 | H030807-940 | 609,- | H030807-940A | | Z |
| | | rear | 1 | H030807-950 | 507,- | H030807-950A | | Z |
| | firematic 120-201 | front | 1 | H031757-940 | 1.360,- | H031757-940A | | Z |
| | | rear | 1 | H031757-950 | 1.055,- | H031757-950A | | Z |
| | firematic 249-301 | front | 10 | H033005-940 | 268,- | H033005-940A | | Z |
| | | rear | 10 | H033007-950 | 224,- | H033007-950A | | Z |

| Flue pipe | | | |
|---|---|-------------|---|
|  | Draft regulator, diameter 150 mm with ex-flap | 4100150-113 | Z |
| | Draft regulator diameter 150 mm | 4090150-071 | Z |
| | Draft regulator, diameter 200 mm with ex-flap | 4100200-038 | Z |
| | Draft regulator diameter 200 mm | 4090200-037 | Z |
| | Draft regulator, diameter 250 mm with ex-flap | 4100250-038 | Z |
|  | Wall socket for draft regulator 150 | 4130150-118 | Z |
| | Wall socket for draft regulator 200 | 4130200-043 | Z |
|  | Flue pipe compensator - silencer | | |
| | Ø 130 mm | X000401-130 | Z |
| | Ø 150 mm | X000401-150 | Z |
| | Ø 180 mm | X000401-180 | Z |
| | Ø 200 mm | X000401-200 | Z |
| | Ø 250 mm | X000401-250 | Z |
| | Ø 300 mm | X000401-300 | Z |
| NOTE: The silencer flue gas compensator is supplied as standard and included at the HERZ cyclone! | | | |


SERVICES HERZ firematic

| | | | | | | | | |
|---|--|------------|--|--------------|---|--|--|---|
|  | Assembly (boiler inclusive one discharge screw) – (without: external electrical cabling and transportation into the boiler room, hydraulic connection, flue pipe connection,...) (net, without discount) | | | | | | | |
| | firematic 20-60 | in Austria | | X000100-450A | * | | | - |
| | firematic 80-101 | in Austria | | X000100-430A | * | | | - |
| | firematic 120-201 | in Austria | | X000100-440A | * | | | - |
| | firematic 249-301 | in Austria | | X000100-420A | * | | | - |
| | firematic 349-501 | in Austria | | X000100-410A | * | | | - |
|  | Commissioning and initial training by factory customer service (net, without discount) | | | | | | | |
| | firematic 20-101 | in Austria | | X000100-470A | * | | | - |
| | firematic 120-201 | in Austria | | X000100-300A | * | | | - |
| | firematic 249-501 | in Austria | | X000100-310A | * | | | - |
|  | Second visit for additional training, system check and readjustment (net, without discount) | | | | | | | |
| | in Austria | | | X000100-473A | * | | | - |

* Assembly and comissioning prices are available in the „HERZ Service Folder“.




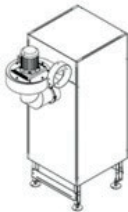
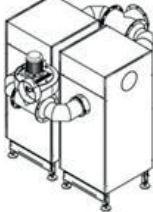

Flue gas dust extractor

firematic

| Integrated electrostatic filter | | | Art. No. | € | G | |
|---|---|--------------------------------|---|-------------|---|---|
|  | Integrated electrostatic filter for firematic inclusive cleaning mechanism (for new boilers and retrofit) | | | | | |
| | für firematic 80-101 | | E035006-400 | | Z | |
| | for firematic 120-201 & firematic 120-201 PELLET | | E035006-100 | | Z | |
| | for firematic 249-301 | | E035006-200 | | Z | |
| | for firematic 349-501 | | E035006-300 | | Z | |
|  | Assembly integrated electrostatic filter (valid in combination with boiler assembly) – (net, without discount) | | | | | |
| | firematic 80-201 in Austria (all types) | | X000100-520A | * | - | |
| | firematic 249-501 in Austria | | X000100-525A | * | - | |
| | Commissioning integrated electrostatic filter (valid in combination with boiler assembly) – (net, without discount) | | | | | |
| | firematic 80-201 in Austria (all types) | | X000100-530A | * | - | |
| | firematic 249-501 in Austria | | X000100-535A | * | - | |
| Electrostatic filter Rona | | | Art. No. | € | G | |
|  | Type Rona - inclusive bypass, ash tray | | | | | |
| | Rona 70 | | E036011-200 | | Z | |
| | Rona 110 | | E036011-300 | | Z | |
| | Rona 150 | | E036022-200 | | Z | |
| | Rona 300 | | E036022-300 | | Z | |
| | Rona 300H | | E036022-301 | | Z | |
|  | Rona 400 | | E036044-300 | | Z | |
| | Rona 400H | | E036044-301 | | Z | |
| Fast selection for filter Rona | | | | | | |
| Boiler type | Fuel | Filter type | Additionally order to the E-filter | Art.No. | € | G |
| firematic 45-60 | ● / ■ | Rona 70 | Mounting set E-Filter for firematic 45-60 | E035010-045 | | Z |
| firematic 80 | ● / ■ | Rona 100 | Mounting set E-Filter for firematic 80 | E035010-080 | | Z |
| firematic 101 | ● / ■ | Rona 100 | Mounting set E-Filter for firematic 101 | E035010-100 | | Z |
| firematic 120-151 | ● / ■ | Rona 150 | Mounting set E-Filter for firematic 120-151 | E035010-120 | | Z |
| firematic 180-201 | ● / ■ | Rona 300 | Mounting set E-Filter for firematic 180-301 | E035010-249 | | Z |
| firematic 249/251 | ● / ■ | Rona 300 | | | | |
| firematic 349-401 | ● / ■ | Rona 400 | Mounting set E-Filter for firematic 349-501 | E035010-349 | | Z |
| firematic 499/501 | ● / ■ | Rona 400H | | | | |
| ● wood pellets ■ wood chips | | | | | | |
| Accessories | | | Art. No. | € | G | |
|  | Automatic ash discharge (A) for: | | | | | |
| | Rona 70-300H | | E035001-001 | | Z | |
| | Rona 400-400H | (* order 2x) | E035001-001 (*) | | Z | |
| | Ash container electrostatic filter (B) | | | | | |
| | 70 ltr | for Rona 70-300H | 3500001-001 | | Z | |
| | 70 ltr | for Rona 400-400H (* order 2x) | 3500001-001 (*) | | Z | |

Flue gas dust extractor


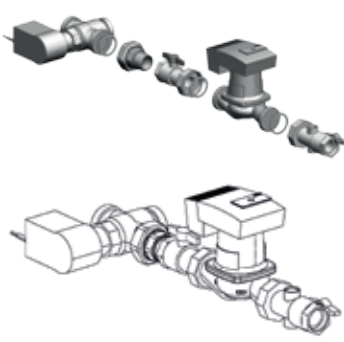



firematic

| Electrostatic filter Rona | | Art. No. | € | G | |
|--|---|-----------------------|--------------|---|---|
|  | Assembly electrostatic filter Rona 70-400H (valid in combination with boiler assembly) – (without: external electrical cabling and transportation into the boiler room), (net, without discount) | | | | |
| | in Austria | X000100-521A | * | - | |
| | Assembly automatic ash discharge Rona (valid in combination with boiler assembly) – (without: external electrical cabling and transportation into the boiler room), (net, without discount) | | | | |
| | in Austria | X000100-523A | * | - | |
| | Commissioning and initial training electrostatic filter Rona 70-400H (net, without discount) | | | | |
| | in Austria | X000100-531A | * | - | |
| cyclone | | Art. No. | € | G | |
|  | Flue gas dust extractor set single cyclone | | | | |
| | – Cyclone | | | | |
| | – Flue gas fan (1,5 kW for firematic 120-301, 3 kW for firematic 349-501) | | | | |
| | – Casing incl. insulation | | | | |
| | – Silencer – flue gas compensator, (2 pieces – before and after cyclone) | | | | |
| | – Cyclone ash hopper | | | | |
| | Attention: Only applies when ordering a new boiler. When retrofit an existing boiler please contact HERZ in advance. | | | | |
| | firematic 120-201 | E010200-000 | | Z | |
| | firematic 249-301 | E010300-000 | | Z | |
| | firematic 349-501 | E010500-000 | | Z | |
|  | Assembly single cyclone for firematic 120-301 (valid in combination with boiler assembly) – (net, without discount) | | | | |
| | in Austria | X000100-511A | * | - | |
| | Assembly single cyclone for firematic 349-501 (valid in combination with boiler assembly) – (net, without discount) | | | | |
| | in Austria | X000100-512A | * | - | |
| Flue gas condenser ECOcond | | Art. No. | € | G | |
|   | Flue gas condenser ECOcond consisting of: | | | | |
| | – 1-row pipe heat exchanger made of acid-resistant stainless steel | | | | |
| | – Cleaning mechanism | | | | |
| | – ID-fan | | | | |
| ECOcond 1 & 2 ECOcond 3 | – Connection cable for standard arrangement | | | | |
| | ECOcond 1 | for firematic 101 | E040100-000 | Z | |
| | ECOcond 2 | for firematic 120-201 | E040200-000 | Z | |
| | ECOcond 3 | for firematic 249-501 | E040300-000 | Z | |
|  | Assembly ECOcond (valid in combination with boiler assembly) – (without external electrical cabling and transportation into the boiler room), (net, without discount) | | | | |
| | ECOcond 1 | in Austria | X000100-220A | * | - |
| | ECOcond 2 | in Austria | X000100-221A | * | - |
| | ECOcond 3 | in Austria | X000100-222A | * | - |
| | Commissioning and initial training by factory customer service (net, without discount) | | | | |
| | in Austria | X000100-223A | * | - | |

* Assembly and commissioning prices are available in the „HERZ Service Folder“.

WOOD CHIPS & PELLETS

firematic


| Accessories | | | | Art. No. | | € | G | | | |
|---|--------------------------------|---|--------------------------------|-----------------------------------|-----------------|-------------------------|-----------------------------------|-------------|---|---|
| Back flow sets | | | | | | | | | | |
|  | | The calculations for the back flow sets refer to a temperature difference of ΔT= 15 K and a reserve pressure of 5 kPa for the flow-variable distance. The interpretation of the back flow set for the boiler has to be checked by the planner or installer and adjusted if necessary. | | | | | | | | |
|  | | Back flow set (delivered unassembled) with 3-way-motor mixing valve with or without pump | | | | | | | | |
| | | ≤kW | Pump | HE-Pump** | kPa* | Valve | k _{VS} | | | |
| | | 35 | WILO Para 25/6 | ✓ | 11,8 | 1" | 10 | 4290510-339 | Z | |
| | | 35 | Without pump | - | - | 1" | 10 | 4290510-253 | Z | |
| | | 40 | WILO Stratos Para 30/1-8 | ✓ | 54,9 | 5/4" | 16 | 4290510-236 | Z | |
| | | 45 | | ✓ | 53 | 5/4" | 16 | 4290510-236 | Z | |
| | | 60 | | ✓ | 24,5 | 5/4" | 16 | 4290510-236 | Z | |
| | | 80 | | ✓ | 19,6 | 5/4" | 16 | 4290510-236 | Z | |
| | | 100 | | ✓ | 12,8 | 5/4" | 16 | 4290510-236 | Z | |
| | | 100 | WILO Stratos Para 30/1-12 | ✓ | 71,6 | 5/4" | 16 | 4290510-343 | Z | |
| 40 - 100 | Without pump | - | - | 5/4" | 16 | 4290510-258 | Z | | | |
| ■ including grid connection adapter Moëx to WS8 grid connector & WS8 mating connector | | | | | | | | | | |
|  | | Back flow set (delivered unassembled) with 3-way-motor mixing valve with or without pump | | | | | | | | |
| | | ≤kW | Pump | HE-Pump** | kPa* | Valve | k _{VS} | | | |
| | | 150 | WILO Yonos MAXO plus 40/0,5-8 | ✓ | 14,7 | 6/4" | 25 | 4290510-344 | Z | |
| | | 150 | WILO Yonos MAXO plus 40/0,5-12 | ✓ | 40,2 | 6/4" | 25 | 4290510-342 | Z | |
| | | 150 | Without pump | ✓ | - | 6/4" | 25 | 4290510-220 | Z | |
|  | | Back flow set (delivered unassembled) with or without pump | | | | | | | | |
| | | | | | | | | | | |
| ≤ kW | Pump | HE-Pump** | kPa* | valve | k _{VS} | Brand | Type*** | Art.No. | € | G |
| | | | | (mm) | (m³/h) | | | | | |
| 220 | WILO Yonos MAXO plus 40/0,5-12 | ✓ | 24,5 | DN 50 | 60 | Danfoss HFE3 50 | MI | 4401700-000 | | Z |
| | without pump | - | - | | | | | 4401700-220 | | Z |
| | WILO Yonos MAXO plus 40/0,5-12 | ✓ | 24,5 | DN 50 | 40 | Belimo H750R/LV230A-TPC | MV | 4301700-000 | | Z |
| | without pump | - | - | | | | | 4001700-220 | | Z |
|  | | Back flow set (delivered unassembled) with or without double-pumps | | | | | | | | |
| | | | | | | | | | | |
| ≤ kW | Pump | HE-Pump** | kPa* | alve | k _{VS} | Brand | Type*** | Art.No. | € | G |
| | | | | (mm) | (m³/h) | | | | | |
| 220 | WILO Stratos D 40/1-12 | ✓ | 25,5 | DN 50 | 60 | Danfoss HFE3 50 | MI | 4401700-050 | | Z |
| | without pump | - | - | | | | | 4401700-200 | | Z |
| | WILO Stratos D 40/1-12 | ✓ | 25,5 | DN 50 | 40 | Belimo H750R/LV230A-TPC | MV | 4301700-050 | | Z |
| | without pump | - | - | | | | | 4001700-200 | | Z |
| Note: | | * residual pressure head in kPa | | ** HE-Pump = high-efficiency pump | | | *** MI = mixer, MV = mixing valve | | | |

WOOD CHIPS & PELLETS

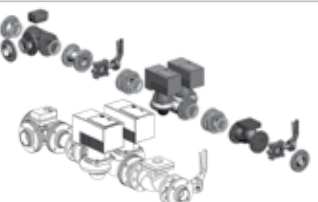
firematic

Accessories

Back flow sets

| | | | | | | | | | | |
|---|--|---|--|--|--|--|--|--|--|--|
|  | | <p>Back flow set (delivered unassembled) with or without pump</p> <p>Info: The calculations for the back flow sets refer to a temperature difference of $\Delta T = 15\text{ K}$ and a reserve pressure of 5 kPa for the flow-variable distance. The interpretation of the back flow set for the boiler has to be checked by the planner or installer and adjusted if necessary.</p> | | | | | | | | |
|---|--|---|--|--|--|--|--|--|--|--|

| ≤ kW | Pump | HE-Pump** | kPa* | Valve (mm) | k_{vs} (m ³ /h) | Brand | Type *** | Art.No. | € | G |
|------|--|-----------|------|---------------|---------------------------------|--------------------------|-------------|-------------|---|---|
| 220 | WILO Yonos MAXO plus 40/0,5-12 without pump | ✓ | 24,5 | DN 50 | 60 | Danfoss HFE3 50 | MI | 4401700-000 | | Z |
| | | - | - | | | | | 4401700-220 | | Z |
| | WILO Yonos MAXO plus 40/0,5-12 without pump | ✓ | 24,5 | DN 50 | 40 | Belimo H750R/LV230A-TPC | MV | 4301700-000 | | Z |
| | | - | - | | | | | 4001700-220 | | Z |
| 300 | WILO Yonos MAXO plus 50/0,5-12 without pump | ✓ | 19,6 | DN 65 | 90 | Danfoss HFE3 65 | MI | 4402400-000 | | Z |
| | | - | - | | | | | 4402400-220 | | Z |
| | WILO Yonos MAXO plus 50/0,5-12 without pump | ✓ | 19,6 | DN 65 | 58 | Belimo H764R/NV230A-TPC | MV | 4302400-000 | | Z |
| | | - | - | | | | | 4002400-220 | | Z |
| 400 | WILO Yonos MAXO plus 65/0,5-12 without pump | ✓ | 25,5 | DN 80 | 150 | Danfoss HFE3 80 | MI | 4490510-250 | | Z |
| | | - | - | | | | | 4490510-200 | | Z |
| | WILO Yonos MAXO plus 65/0,5-12 without pump | ✓ | 25,5 | DN 80 | 90 | Belimo H779R/NV230A-TPC | MV | 4390510-250 | | Z |
| | | - | - | | | | | 4090510-200 | | Z |
| 600 | WILO Yonos MAXO plus 80/0,5-12 without pump | ✓ | 30,4 | DN 100 | 225 | Danfoss HFE3 100 | MI | 4404610-000 | | Z |
| | | - | - | | | | | 4404610-220 | | Z |
| | WILO Yonos MAXO plus 80/0,5-12 without pump | ✓ | 30,4 | DN 100 | 145 | Belimo H7100N/EV230A-TPC | MV | 4304610-000 | | Z |
| | | - | - | | | | | 4104610-220 | | Z |

| | | | | | | | | | | |
|---|--|---|--|--|--|--|--|--|--|--|
|  | | <p>Back flow set (delivered unassembled) with or without double-pumps</p> <p>Info: The calculations for the back flow sets refer to a temperature difference of $\Delta T = 15\text{ K}$ and a reserve pressure of 5 kPa for the flow-variable distance. The interpretation of the back flow set for the boiler has to be checked by the planner or installer and adjusted if necessary.</p> | | | | | | | | |
|---|--|---|--|--|--|--|--|--|--|--|

| ≤ kW | Pump | HE-Pump** | kPa* | Valve (mm) | k_{vs} (m ³ /h) | Brand | Type *** | Art.No. | € | G |
|------|--|-----------|------|---------------|---------------------------------|--------------------------|-------------|-------------|---|---|
| 220 | WILO Stratos D 40/1-12 without pump | ✓ | 25,5 | DN 50 | 60 | Danfoss HFE3 50 | MI | 4401700-050 | | Z |
| | | - | - | | | | | 4401700-200 | | Z |
| | WILO Stratos D 40/1-12 without pump | ✓ | 25,5 | DN 50 | 40 | Belimo H750R/LV230A-TPC | MV | 4301700-050 | | Z |
| | | - | - | | | | | 4001700-200 | | Z |
| 300 | WILO Stratos D 50/1-12 without pump | ✓ | 13,7 | DN 65 | 90 | Danfoss HFE3 65 | MI | 4402400-050 | | Z |
| | | - | - | | | | | 4402400-200 | | Z |
| | WILO Stratos D 50/1-12 without pump | ✓ | 13,7 | DN 65 | 58 | Belimo H764R/NV230A-TPC | MV | 4302400-050 | | Z |
| | | - | - | | | | | 4002400-200 | | Z |
| 400 | WILO Stratos D 65/1-12 without pump | ✓ | 20,6 | DN 80 | 150 | Danfoss HFE3 80 | MI | 4403400-050 | | Z |
| | | - | - | | | | | 4403400-200 | | Z |
| | WILO Stratos D 65/1-12 without pump | ✓ | 20,6 | DN 80 | 90 | Belimo H779R/NV230A-TPC | MV | 4303400-050 | | Z |
| | | - | - | | | | | 4103400-200 | | Z |
| 600 | WILO Stratos D 80/1-12 without pump | ✓ | 25,5 | DN 100 | 225 | Danfoss HFE3 100 | MI | 4404610-050 | | Z |
| | | - | - | | | | | 4404610-200 | | Z |
| | WILO Stratos D 80/1-12 without pump | ✓ | 25,5 | DN 100 | 145 | Belimo H7100N/EV230A-TPC | MV | 4304610-050 | | Z |
| | | - | - | | | | | 4104610-200 | | Z |

Note:

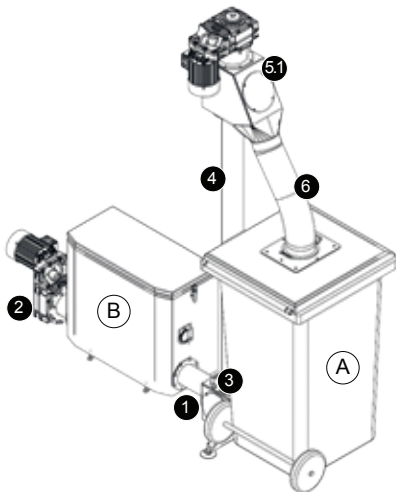
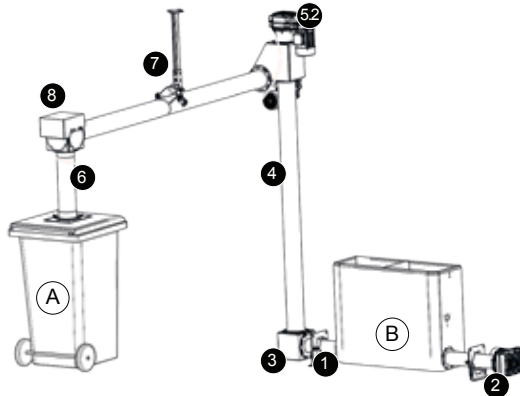



* residual pressure head in kPa

** HE-Pump = high-efficiency pump

*** MI = mixer, MV = mixing valve


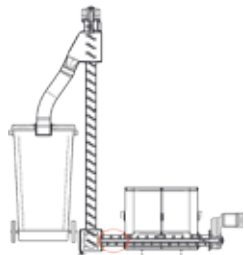
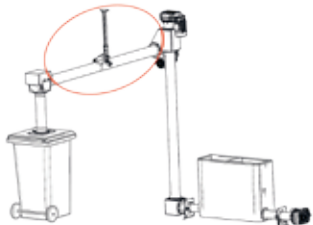

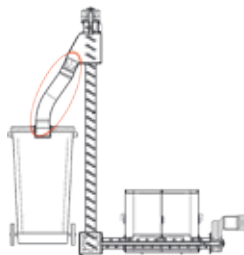


ASH DISCHARGE SYSTEMS

firematic

| Accessories | | Art. No. | | € | G | | | | | | | | | | | | | |
|--|---|-------------|--|-------------|-------------------|--|----------------------|--|-------------------|--|--|--|----------|----------|----------|--|--|--|
| <p>Central ash discharge via rigid screw for firematic 20-501 (applicable for wood chips and pellets as fuel)</p> | <p>Basic set "direct drop"</p>  | | <p>Basic set "transfer system"</p>  | | | | | | | | | | | | | | | |
| | <p>Basic set "direct drop" (1~ 230V or 3~ 400V):</p> <ul style="list-style-type: none">– (B) Ash hopper at the boiler + light barrier– (1) Box screw ø85 mm on shaft– (2) Discharge motor 0,37 kW– (3) Transfer hopper– (4) Vertical screw 1.5 m, ø115 mm without shaft– (5.1) Dropping head + motor– (6) Dropping pipe 1 m <p>Min. room height for the basic set: 2.340 mm (shorter variants possible)</p> | | <p>Basic set „transfer system“ (3~ 400V):</p> <ul style="list-style-type: none">– (B) Ash hopper at the boiler + light barrier– (1) Box screw ø85 mm on shaft– (2) Discharge motor 0,37 kW– (3) Transfer hopper– (4) Vertical screw 2 m, ø115 mm without shaft– (5.2) Transfer head + motor– (7) Horizontal screw 1 m, ø115 mm on shaft + holder– (8) Transfer hopper– (6) Dropping pipe 1 m <p>Min. room height for the basic set: 2.840 mm (shorter variants possible)</p> | | | | | | | | | | | | | | | |
| | | | <table><tr><th colspan="2"></th><th colspan="2">System "direct drop"</th><th>System "transfer"</th><th></th></tr><tr><th colspan="2"></th><th>1~ 230 V</th><th>3~ 400 V</th><th>3~ 400 V</th><th></th></tr></table> | | | | System "direct drop" | | System "transfer" | | | | 1~ 230 V | 3~ 400 V | 3~ 400 V | | | |
| | | | System "direct drop" | | System "transfer" | | | | | | | | | | | | | |
| | | 1~ 230 V | 3~ 400 V | 3~ 400 V | | | | | | | | | | | | | | |
| firematic 20-35 | Art. No. € | H030307-350 | H030307-355 | H030307-380 | Z | | | | | | | | | | | | | |
| firematic 45-60 | Art. No. € | H030507-350 | H030507-355 | H030507-380 | Z | | | | | | | | | | | | | |
| firematic 80-101 | Art. No. € | H030807-350 | H030807-355 | H030807-380 | Z | | | | | | | | | | | | | |
| firematic 120-201 | Art. No. € | H031757-350 | H031757-355 | H031757-380 | Z | | | | | | | | | | | | | |
| firematic 249-301 | Art.Nr. € | H033007-350 | H033007-355 | H033007-380 | Z | | | | | | | | | | | | | |
| firematic 349-501 | Art.Nr. € | H035007-350 | H035007-355 | H035007-380 | Z | | | | | | | | | | | | | |
| <p>ATTENTION: Delivery without ash hopper (A)!</p> <p>ATTENTION: The insulation including weather protection in the outdoor area has to be done on site!</p> | | | | | | | | | | | | | | | | | | |
|  | Ash hopper 240 litres galvanised (with opening on the top) (A) | | H176007-205 | | Z | | | | | | | | | | | | | |
|  | Ash hopper 660 litres galvanised (with opening on the top)** (A) | | 5012202-150 | | Z | | | | | | | | | | | | | |
|  | Ash hopper 1100 litres galvanised (with opening on the top)** (A) | | H178007-200 | | Z | | | | | | | | | | | | | |
| <p>**ATTENTION: With this version, the vertical screw has to be extended by 0,5 m!</p> | | | | | | | | | | | | | | | | | | |



ASH DISCHARGE SYSTEMS

firematic & firematic PELLET

| Accessories | Art. No. | € | G |
|---|--|---|-------------------------------------|
|  | <p>Extension set „additional screw“ (3~ 400 V) includes: motor, transfer hopper, horizontal screw 1 m (ø115 mm on shaft) and steel pipe + additional holder</p> <p>Maximum 2 extensions possible (to total 5 screws)</p> | H030507-354 | Z |
|  | <p>Extension set “screw ash box” per metre for central ash discharge firematic includes: screw ø85 mm on shaft, steel pipe</p> <p>Maximum extension length: 2 m</p> | H030507-353 | Z |
|  | <p>Extension set “horizontal screw” per metre for central ash discharge firematic includes: screw ø115 mm on shaft, steel pipe, flange</p> <p>Per 2 m one additional holder is necessary.</p> <p>Maximum extension length: 8 m (max. total length 9 m)</p> | H030507-352 | Z |
|  | <p>Extension set “vertical screw” per metre for central ash discharge firematic includes: screw ø115 mm without shaft, steel pipe, flange</p> <p>Maximum total height: 4 m</p> | H030507-351 | Z |
|  | <p>Extension set “dropping tube” per metre for central ash discharge firematic includes: dropping tube, clamp</p> | H030507-357 | Z |
|  | <p>Control box de-ashing (3~ 400 V)</p> <p>2 motor outputs</p> <p>3 motor outputs</p> <p>4 motor outputs</p> <p>5 motor outputs</p> | <p>X000105-320</p> <p>X000105-330</p> <p>X000105-340</p> <p>X000105-350</p> | <p>Z</p> <p>Z</p> <p>Z</p> <p>Z</p> |
|  | <p>Additional holder floor / wall / ceiling</p> <p>(Note: 1 holder is already included in the basic set)</p> | H030507-305 | Z |

ASH DISCHARGE SYSTEMS

firematic

| Accessories | | Art. No. | € | G |
|---|---|--------------|---|---|
| SERVICES Ash discharge system with rigid screw | | | | |
|  | Assembly ash discharge system rigid screw for firematic 20-501 & firematic 120-201 PELLET with 2 motors (net, without discount) | | | |
| | in Austria | X000100-381A | * | - |
|  | Assembly per additional screw to ash discharge system rigid screw for firematic 20-501 & firematic 120-201 PELLET (net, without discount) | | | |
| | in Austria | X000100-382A | * | - |

* Assembly and comissioning prices are available in the „HERZ Service Folder“.

BioFire

Biomass boiler for wood chips and pellets

BioFire 500-1500 T-Control
for pellets and wood chips up to P31S

BioFire 500-1500 T-Control (P45S)
for wood chips up to P45S

BioFire 500-1000 T-Control (P45S + M50)
for wood chips up to P45S and water content of 50% (M50)



Illustration: BioFire 500-1.500



| | |
|---|---|
| Boiler body with insulation | ✓ |
| Silencer set for boiler body | ✓ |
| Double insertion screw with chain drive | ✓ |
| Safety temperature limiter | ✓ |
| Speed controlled ID fan | ✓ |
| Speed controlled primary and secondary air blowers | ✓ |
| Automatic heat exchanger cleaning | ✓ |
| Residual heat usage | ✓ |
| Step / moving grate with automatic cleaning | ✓ |
| Back-burn safety unit BFP-flap with self-closing fire protection flap | ✓ |
| Level monitored interim hopper | ✓ |
| Automatic ignition using hot air fans (2 hot air fan for BioFire P45S + M50) | ✓ |
| Automatic ash discharge from combustion room module and heat exchanger module | ✓ |
| Automatically controlled flue gas flap (for swift controllability) | ✓ |
| Internally pre-wired | ✓ |



Control T-Control
Microprocessor-driven operating unit
with Touch-Display

| | |
|--|---|
| Combustion control | ✓ |
| Buffer management module | ✓ |
| Under pressure control | ✓ |
| Control for back flow set (motor mixing valve and pump) | ✓ |
| Motor valve control for fast-run heating of the heating circuits during the buffer loading | ✓ |
| Lambda probe control (controls the combustion air and fuel input) | ✓ |



With the extension modules it is possible to realise several possibilities (due to customers request and existing hydraulic system) and build up a complete heating control system.
In heat generators with T-Control following extension modules are possible: 4 internal modules und 30 external modules

| HERZ BioFire T-Control | for pellets & wood chips P31S | Art. No. | € | G |
|------------------------|-------------------------------|----------|---|---|
|------------------------|-------------------------------|----------|---|---|



| | | |
|-----------------------------|-------------|----|
| HERZ BioFire T-Control | H175000-001 | D2 |
| HERZ BioFire 600 T-Control | H176000-001 | D2 |
| HERZ BioFire 800 T-Control | H178000-001 | D2 |
| HERZ BioFire 1000 T-Control | H171000-001 | D2 |
| HERZ BioFire 1250 T-Control | H171250-001 | D2 |
| HERZ BioFire 1500 T-Control | H171500-001 | D2 |

| HERZ BioFire T-Control (P45S) | for wood chips P45S | Art. No. | G |
|-------------------------------|---------------------|----------|---|
|-------------------------------|---------------------|----------|---|



| | | |
|------------------------------------|-------------|----|
| HERZ BioFire 500 T-Control (P45S) | H175000-100 | D2 |
| HERZ BioFire 600 T-Control (P45S) | H176000-100 | D2 |
| HERZ BioFire 800 T-Control (P45S) | H178000-100 | D2 |
| HERZ BioFire 1000 T-Control (P45S) | H171000-100 | D2 |
| HERZ BioFire 1250 T-Control (P45S) | H171250-100 | D2 |
| HERZ BioFire 1500 T-Control (P45S) | H171500-100 | D2 |

| HERZ BioFire T-Control (P45S + M50) | for wood chips up to a water content of 50% (M50) | Art. No. | G |
|-------------------------------------|---|----------|---|
|-------------------------------------|---|----------|---|



| | | |
|--|-------------|----|
| HERZ BioFire 500 T-Control (P45S + M50) | H178000-002 | D2 |
| HERZ BioFire 600 T-Control (P45S + M50) | H171000-002 | D2 |
| HERZ BioFire 800 T-Control (P45S + M50) | H171250-002 | D2 |
| HERZ BioFire 1000 T-Control (P45S + M50) | H171500-002 | D2 |

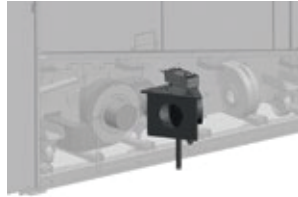
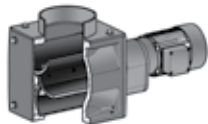


Fast selection

| Boiler type | Art.No. | Pellets | Permissible wood chip sizes | Output (kW) part load at | Output (kW) full load at* | | |
|--------------------------|-------------|-------------|-----------------------------|--------------------------|---------------------------|------|------|
| | | ISO 17255-2 | ISO 17225-4 | | M25 | M40 | M50 |
| BioFire 500 | H175000-001 | A1, A2 | P16S/P31S | 150 | 500 | 350 | - |
| BioFire 500 (P45S) | H175000-100 | - | P16S/P31S/P45S | 150 | 500 | 350 | - |
| BioFire 600 | H176000-001 | A1, A2 | P16S/P31S | 180 | 600 | 500 | - |
| BioFire 600 (P45S) | H176000-100 | - | P16S/P31S/P45S | 180 | 600 | 500 | - |
| BioFire 800 | H178000-001 | A1, A2 | P16S/P31S | 240 | 800 | 600 | - |
| BioFire 800 (P45S) | H178000-100 | - | P16S/P31S/P45S | 240 | 800 | 600 | - |
| BioFire 500 (P45S + M50) | H178000-002 | - | P16S/P31S/P45S | 250 | - | - | 500 |
| BioFire 1000 | H171000-001 | A1, A2 | P16S/P31S | 300 | 1000 | 750 | - |
| BioFire 1000 (P45S) | H171000-100 | - | P16S/P31S/P45S | 300 | 1000 | 750 | - |
| BioFire 600 (P45S + M50) | H171000-002 | - | P16S/P31S/P45S | 300 | - | - | 600 |
| BioFire 1250 | H171250-001 | A1, A2 | P16S/P31S | 375 | 1250 | 1050 | - |
| BioFire 1250 (P45S) | H171250-100 | - | P16S/P31S/P45S | 375 | 1250 | 1050 | - |
| BioFire 800 (P45S + M50) | H171250-002 | - | P16S/P31S/P45S | 400 | - | - | 800 |
| BioFire 1500 | H171500-001 | A1, A2 | P16S/P31S | 450 | 1500 | 1125 | - |
| BioFire 1500 (P45S) | H171500-100 | - | P16S/P31S/P45S | 450 | 1500 | 1125 | - |
| BioFire 1000 (45S + M50) | H171500-002 | - | P16S/P31S/P45S | 500 | - | - | 1000 |

*Water content according to ISO 17225-4

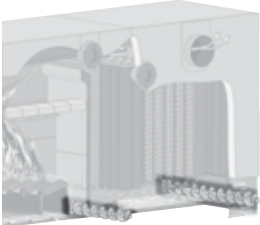

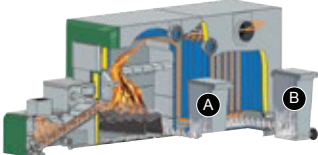


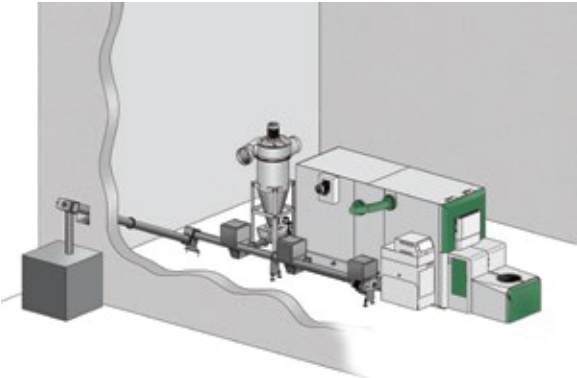
WOOD CHIPS & PELLETS

BioFire

| Accessories | | Art. No. | € | G |
|---|--|-------------|-------------|----|
| | Permissible standard operating pressure 5,0 bar | | | |
| | Surcharge for BioFire with 6,0 bar operating pressure | X000100-640 | | D2 |
|  | Surcharge exhaust gas recirculation BioFire consisting of: - Control flap with servo motor - Fan housing incl. fan runner and motor - Temperature sensor - Automatic control of the volume of combustion air | E060100-000 | | D2 |
|  | Cell wheel sluice up to 1.000 kW (with rubber lips) Necessary for pneumatically filled silos for air distinction. Metallic cell wheel sluice | H071808-800 | On request! | Z |
|  | Thermal valve for safety heat exchanger Opening temperature : 108°C Info: For BioFire 2 pcs. parallel necessary | 5010216-158 | | Z |
|  | Pressure switch incl. cable (length 5 m) range of adjustment 0-6 bar, output signal 4-20 mA | 4050070-758 | | Z |

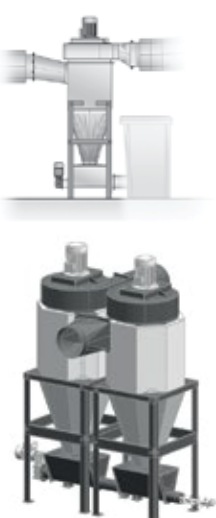

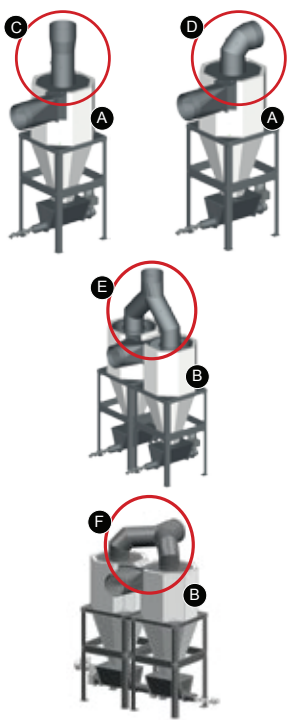


WOOD CHIPS & PELLETS

BioFire

| Accessories | Art. No. | € | G |
|--|--|-------------|---|
| Ash discharge | | | |
|  | <p>The ash discharge from burner and heat exchanger module (burning ash and fly ash discharge system) is included in the boiler.</p> | | |
|  | <p>ATTENTION : Delivery without ash- and fly ash hoppers (customer has to decide between the possibilities with ash-hoppers or a central ash discharge system)</p> | | |
|  | <p>Boiler ash hopper 240 ltr. for HERZ Biofire Burning ash hopper (A) Fly ash hopper (B)</p> | H176007-200 | Z |
|  | <p>Cyclone ash hopper 240 ltr. for HERZ Biofire</p> | H176007-215 | Z |
|  | <p>Screw extension for ash discharge system BioFire (per screw and per metre) for the combustion ash or fly ash hopper</p> | H178007-290 | Z |
| <div>  <div> <p>Central ash discharge screw system for</p> <ul style="list-style-type: none"> – Combustion ash – Fly ash – Cyclone ash <p>Prices on request (project work)!</p> </div> </div> | | | |



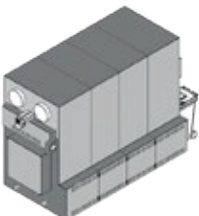
Flue gas dust extractor

BioFire

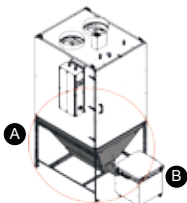
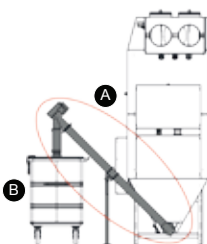
| Cyclone | | Art. No. | € | G |
|---|---|--|--|---|
|  | Flue gas dust extractor set consisting of: – Cyclone – Exhaust fan – Casing incl. insulation – Silencer – flue gas compensator, (2 pieces – before and after cyclone) | | | |
| | Single cyclone | | | |
| | BioFire 500 | E010600-000 | | Z |
| | BioFire 500 (P45S) | | | |
| | Double cyclone | | | |
| | BioFire 600-800 | E013000-311 | | Z |
| | BioFire 600-800 (P45S) | | | |
| | BioFire 500 (P45S + M50) | | | |
| | BioFire 1000 | E013000-312 | | Z |
| | BioFire 1000 (P45S) | | | |
| | BioFire 600 (P45S + M50) | | | |
| | BioFire 1250-1500 | E013000-313 | | Z |
| | BioFire 1250-1500 (P45S) | | | |
| | BioFire 800-1000 (P45S + M50) | | | |
|  ATTENTION: without cyclone ash hopper (The customer has to decide between the possibilities with ash-hoppers or a central ash discharge system.) | | | | |
| Cyclone for the combination with an electrostatic filter | | | | |
|  | Flue gas dust extractor set EF for the combination with an electrostatic filter consisting of: – Cyclone – Casing incl. insulation – Silencer – flue gas compensator, (2 pieces – before and after cyclone) | | | |
| | Single cyclone (A) | | | |
| | BioFire 500 | E010260-060 | | Z |
| | BioFire 500 (P45S) | | | |
| | Double cyclone (B) | | | |
| | BioFire 600-800 | E013000-321 | | Z |
| | BioFire 600-800 (P45S) | | | |
| | BioFire 500 (P45S + M50) | | | |
| | BioFire 1000 | E013000-322 | | Z |
| | BioFire 1000 (P45S) | | | |
| | BioFire 600 (P45S + M50) | | | |
| | BioFire 1250-1500 | E013000-323 | | Z |
| | BioFire 1250-1500 (P45S) | | | |
| | BioFire 800-1000 (P45S + M50) | | | |
| | Flue pipe adapter straight DN 300 for single cyclone | | | |
| | straight (C) | E013007-280 | | Z |
| | 90°- bend (D) | E013007-200 | | Z |
| | Y-piece DN 300 for double cyclone | | | |
| | straight (E) | E013007-180 | | Z |
| | 90°- bend (F) | E013007-100 | | Z |
|  | Option cyclone increase for: | E013004-150 | | Z |
| | BioFire 500 BioFire 500 (P45S) Cyclone increase min. 174 mm max. 500 mm 1x necessary | BioFire 600-800 BioFire 600-800 (P45S) BioFire 500 (P45S + M50) Cyclone increase min. 174 mm max. 500 mm 2x necessary | BioFire 1000 BioFire 1000 (P45S) BioFire 600 (P45S + M50) Cyclone increase min. 174 mm max. 300 mm 2x necessary | |
|  ATTENTION: without cyclone ash hopper (The customer has to decide between the possibilities with ash-hoppers or a central ash discharge system.) | | | | |

Flue gas dust extractor


BioFire

| Electrostatic filter Rona | | Art. No. | € | G |
|---|---|-------------|---|---|
|  | Type Rona - inclusive bypass, ash tray | | | |
| | Rona 400H | E036044-301 | | Z |
|  | Type Rona M - inclusive bypass, automatic ash discharge (pressing screw) | | | |
| | Rona 3M | 3500002-003 | | Z |
| | Rona 4M | 3500002-004 | | Z |
| | Rona 5M | 3500002-005 | | Z |
| | Rona 6M | 3500002-006 | | Z |
|  | Type Rona M-D inclusive bypass, automatic ash discharge (pressing screw), SPS-control incl. remote maintenance | | | |
| | Rona 4M-D300 | 3500002-304 | | Z |

Accessories filter Rona

| | | | | |
|---|---|-----------------|--|---|
|  | Automatic ash discharge (A) for: | | | |
| | Rona 400-400H (* order 2x) | E035001-001 (*) | | Z |
|  | Climbing screw (A) for automatic ash discharge for: | | | |
| | Rona 3M-6M, 4M-D300 | E035002-001 | | Z |
| | Ash container electrostatic filter (B) | | | |
| | 70 ltr. for Rona 400-400H (* order 2x) | 3500001-001 (*) | | Z |
| | 240 ltr. for RONA 3M-6M / 4M-D300 | 3500001-002 | | Z |
| | 800 ltr. for RONA 3M-6M / 4M-D300 | 3500001-003 | | Z |
| | Surcharge for SPS-control incl. remote maintenance for RONA M | 3600000-002 | | Z |

SERVICES

| | | | | |
|---|---|------------|--------------|-----|
|  | Assembly electrostatic filter Rona (valid in combination with boiler assembly) – (without: external electrical cabling and transportation into the boiler room), (net, without discount) | | | |
| | Electrostatic filter Rona 70-400H | in Austria | X000100-521A | * - |
| | Electrostatic filter Rona 3M-6M | in Austria | X000100-522A | * - |
| | Assembly automatic ash discharge Rona (valid in combination with boiler assembly) – (without: external electrical cabling and transportation into the boiler room), (net, without discount) | | | |
| | | in Austria | X000100-523A | * - |
| | Commissioning and initial training electrostatic filter Rona (net, without discount) | | | |
| | Rona 70-400H | in Austria | X000100-531A | * - |
| | Rona 3M-6M | in Austria | X000100-532A | * - |

* Assembly and comissioning prices are available in the „HERZ Service Folder“.

Flue gas dust extractor

BioFire

Electrostatic filter Rona

Art. No.

€

G

Fast selection for filter Rona

| Boiler type | Fuel | Filter type | Additionally order to the E-filter | Art.No. | € | G |
|-------------|-------|-------------|--|-------------|---|---|
| BioFire 500 | ● / ■ | Rona 400H | Single cyclone * | E010260-060 | | Z |
| | | | Exhaust fan (400H/3M) | 5010225-040 | | Z |
| | | | Frequency inverter (400H/3M) | 5122200-041 | | Z |
| | | | Mounting set electrostatic filter 400H | E035010-500 | | Z |
| | ▲ | 4M | Double cyclone** | E013000-321 | | Z |
| | | | Exhaust fan (4M) | 5010225-075 | | Z |
| | | | Frequency inverter (4M) | 5122200-070 | | Z |
| | | | Mounting set electrostatic filter (4M) | E035010-800 | | Z |
| BioFire 600 | ● | Rona 400H | Double cyclone** | E013000-321 | | Z |
| | | | Exhaust fan (400H/3M) | 5010225-040 | | Z |
| | | | Frequency inverter (400H/3M) | 5122200-041 | | Z |
| | | | Mounting set electrostatic filter 400H | E035010-500 | | Z |
| | ■ | 3M | Double cyclone** | E013000-321 | | Z |
| | | | Exhaust fan (400H/3M) | 5010225-040 | | Z |
| | | | Frequency inverter (400H/3M) | 5122200-041 | | Z |
| | | | Mounting set electrostatic filter 3M | E035010-600 | | Z |
| | ▲ | 4M | Double cyclone** | E013000-322 | | Z |
| | | | Exhaust fan (4M) | 5010225-075 | | Z |
| | | | Frequency inverter (4M) | 5122200-070 | | Z |
| | | | Mounting set electrostatic filter 4M | E035010-800 | | Z |
| BioFire 800 | ● | 3M | Double cyclone** | E013000-321 | | Z |
| | | | Exhaust fan (400H/3M) | 5010225-040 | | Z |
| | | | Frequency inverter (400H/3M) | 5122200-041 | | Z |
| | | | Mounting set electrostatic filter 3M | E035010-600 | | Z |
| | ■ | 4M | Double cyclone** | E013000-321 | | Z |
| | | | Exhaust fan (4M) | 5010225-075 | | Z |
| | | | Frequency inverter (4M) | 5122200-070 | | Z |
| | | | Mounting set electrostatic filter 4M | E035010-800 | | Z |
| | ▲ | 5M | Double cyclone** | E013000-323 | | Z |
| | | | Exhaust fan (5M) | 5010225-110 | | Z |
| | | | Frequency inverter (5M) | 5122200-111 | | Z |
| | | | Mounting set electrostatic filter 5M | E035011-000 | | Z |

- Wood pellets
- Wood chips
- ▲ Wood chips (P45S/M50)

Fuel characteristics as for the respective boiler

Flue gas dust extractor

BioFire

Electrostatic filter Rona

Art. No.

€



G

Fast selection for filter Rona

| Boiler type | Fuel | Filter type | Additionally order to the E-filter | Art.No. | € | G |
|--------------|------|-------------|---|-------------|---|---|
| BioFire 1000 | ● | 4M | Double cyclone** | E013000-322 | | Z |
| | | | Exhaust fan (4M) | 5010225-075 | | Z |
| | | | Frequency inverter (4M) | 5122200-070 | | Z |
| | | | Mounting set electrostatic filter 4M | E035010-800 | | Z |
| | ■ | 5M | Double cyclone** | E013000-322 | | Z |
| | | | Exhaust fan (5M) | 5010225-110 | | Z |
| | | | Frequency inverter (5M) | 5122200-111 | | Z |
| | | | Mounting set electrostatic filter 5M | E035011-000 | | Z |
| | ▲ | 4M-D300 | Double cyclone** | E013000-323 | | Z |
| | | | Exhaust fan (4M-D300/6M) | 5010225-150 | | Z |
| | | | Frequency inverter (4M-D300/6M) | 5122200-151 | | Z |
| | | | Mounting set electrostatic filter 4M-D300 | E035011-500 | | Z |
| BioFire 1250 | ● | 5M | Double cyclone** | E013000-323 | | Z |
| | | | Exhaust fan (5M) | 5010225-110 | | Z |
| | | | Frequency inverter (5M) | 5122200-111 | | Z |
| | | | Mounting set electrostatic filter 5M | E035011-000 | | Z |
| | ■ | 6M | Double cyclone** | E013000-323 | | Z |
| | | | Exhaust fan | 5010225-150 | | Z |
| | | | Frequency inverter | 5122200-151 | | Z |
| | | | Mounting set electrostatic filter 6M | E035011-250 | | Z |
| BioFire 1500 | ● | 6M | Double cyclone** | E013000-323 | | Z |
| | | | Exhaust fan (4M-D300/6M) | 5010225-150 | | Z |
| | | | Frequency inverter (4M-D300/6M) | 5122200-151 | | Z |
| | | | Mounting set electrostatic filter 6M | E035011-250 | | Z |
| | ■ | 4M-D300 | Double cyclone** | E013000-323 | | Z |
| | | | Exhaust fan (4M-D300/6M) | 5010225-150 | | Z |
| | | | Frequency inverter (4M-D300/6M) | 5122200-151 | | Z |
| | | | Mounting set electrostatic filter 4M-D300 | E035011-500 | | Z |

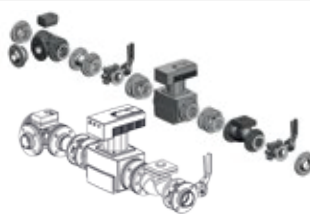
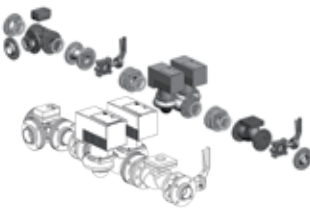
- Wood pellets
- Wood chips
- ▲ Wood chips (P45S/M50)

Fuel characteristics as for the respective boiler

| | | | | |
|---|---|-------------|-------|---|
|  | * Additionally order to the single cyclone | | | |
| | Flue pipe transition straight DN300 | E013007-280 | 170,- | Z |
| | Flue pipe transition 90° DN 300 | E013007-200 | 170,- | Z |
|  | ** Additionally order to the double cyclone | | | |
| | Y-piece straight DN 300 | E013007-180 | 260,- | Z |
| | Y-piece 90° DN 300 | E013007-100 | 260,- | Z |




WOOD CHIPS & PELLETS

BioFire

| Accessories | | | | | | Art. No. | € | G | | |
|---|--|---------------------------------|---|-----------------------------------|--------------------|--------------------------|-----------------------------------|-------------|---|---|
| Back flow sets | | | | | | | | | | |
|  | | | <p>Back flow set (delivered unassembled) with or without pump</p> <p>Info: The calculations for the back flow sets refer to a temperature difference of $\Delta T= 15 \text{ K}$ and a reserve pressure of 5 kPa for the flow-variable distance. The interpretation of the back flow set for the boiler has to be checked by the planner or installer and adjusted if necessary.</p> | | | | | | | |
| $\leq \text{kW}$ | Pump | HE-Pump** | kPa* | valve (mm) | k_{vs} (m³/h) | Brand | Type *** | Art.No. | € | G |
| 600 | WILO Yonos MAXO plus 80/0,5-12 without pump | ✓ | 30,4 | DN 100 | 225 | Danfoss HFE3 100 | MI | 4404610-000 | | Z |
| | | - | - | | | | | 4404610-220 | | Z |
| | WILO Yonos MAXO plus 80/0,5-12 without pump | ✓ | 30,4 | DN 100 | 145 | Belimo H7100N/EV230A-TPC | MV | 4304610-000 | | Z |
| | | - | - | | | | | 4104610-220 | | Z |
| 800 | WILO Yonos MAXO plus 100/0,5-12 without pump | ✓ | 14,7 | DN 125 | 280 | Danfoss HFE3 125 | MI | 4404810-000 | | Z |
| | | - | - | | | | | 4404810-220 | | Z |
| | WILO Yonos MAXO plus 100/0,5-12 without pump | ✓ | 14,7 | DN 125 | 220 | Belimo H7125N/EV230A-TPC | MV | 4304810-000 | | Z |
| | | - | - | | | | | 4104810-220 | | Z |
| 1000 | WILO IL 100/160-2,2/4-S1 without pump | - | 36,3 | DN 150 | 400 | Danfoss HFE3 150 | MI | 4401000-000 | | Z |
| | | - | - | | | | | 4401000-200 | | Z |
| | WILO IL 100/160-2,2/4-S1 without pump | - | 36,3 | DN 150 | 320 | Belimo H7150N/EV230A-TPC | MV | 4301000-000 | | Z |
| | | - | - | | | | | 4101000-200 | | Z |
| 1250 | WILO IL 125/170-4/4 without pump | - | 53 | DN 150 | 400 | Danfoss HFE3 150 | MI | 4401250-000 | | Z |
| | | - | - | | | | | 4401250-200 | | Z |
| | WILO IL 125/170-4/4 without pump | - | 53 | DN 150 | 320 | Belimo H7150N/EV230A-TPC | MV | 4201250-000 | | Z |
| | | - | - | | | | | 4201250-200 | | Z |
| 1500 | WILO IL 125/170-4/4 without pump | - | 46,1 | DN 150 | 400 | Danfoss HFE3 150 | MI | 4401500-000 | | Z |
| | | - | - | | | | | 4401500-200 | | Z |
| | WILO IL 125/170-4/4 without pump | - | 46,1 | DN 150 | 320 | Belimo H7150N/EV230A-TPC | MV | 4201500-000 | | Z |
| | | - | - | | | | | 4201500-200 | | Z |
|  | | | <p>Back flow set (delivered unassembled) with or without double-pumps</p> <p>Info: The calculations for the back flow sets refer to a temperature difference of $\Delta T= 15 \text{ K}$ and a reserve pressure of 5 kPa for the flow-variable distance. The interpretation of the back flow set for the boiler has to be checked by the planner or installer and adjusted if necessary.</p> | | | | | | | |
| $\leq \text{kW}$ | Pump | HE-Pump** | kPa* | valve (mm) | k_{vs} (m³/h) | Brand | Type *** | Art.No. | € | G |
| 600 | WILO Stratos D 80/1-12 without pump | ✓ | 25,5 | DN 100 | 225 | Danfoss HFE3 100 | MI | 4404610-050 | | Z |
| | | - | - | | | | | 4404610-200 | | Z |
| | WILO Stratos D 80/1-12 without pump | ✓ | 25,5 | DN 100 | 145 | Belimo H7100N/EV230A-TPC | MV | 4304610-050 | | Z |
| | | - | - | | | | | 4104610-200 | | Z |
| 800 | WILO DL 100/160-2,2/4-S1 without pump | ✓ | 40,2 | DN 125 | 280 | Danfoss HFE3 125 | MI | 4404800-050 | | Z |
| | | - | - | | | | | 4404810-200 | | Z |
| | WILO DL 100/160-2,2/4-S1 without pump | - | 40,2 | DN 125 | 220 | Belimo H7125N/EV230A-TPC | MV | 4104810-050 | | Z |
| | | - | - | | | | | 4104810-200 | | Z |
| 1000 | WILO DL 100/160-2,2/4-S1 without pump | - | 33,3 | DN 150 | 400 | Danfoss HFE3 150 | MI | 4404980-050 | | Z |
| | | - | - | | | | | 4404980-200 | | Z |
| | WILO DL 100/160-2,2/4-S1 without pump | - | 33,3 | DN 150 | 320 | Belimo H7150N/EV230A-TPC | MV | 4304980-050 | | Z |
| | | - | - | | | | | 4104980-200 | | Z |
| Note: | | * residual pressure head in kPa | | ** HE-Pump = high-efficiency pump | | | *** MI = mixer, MV = mixing valve | | | |

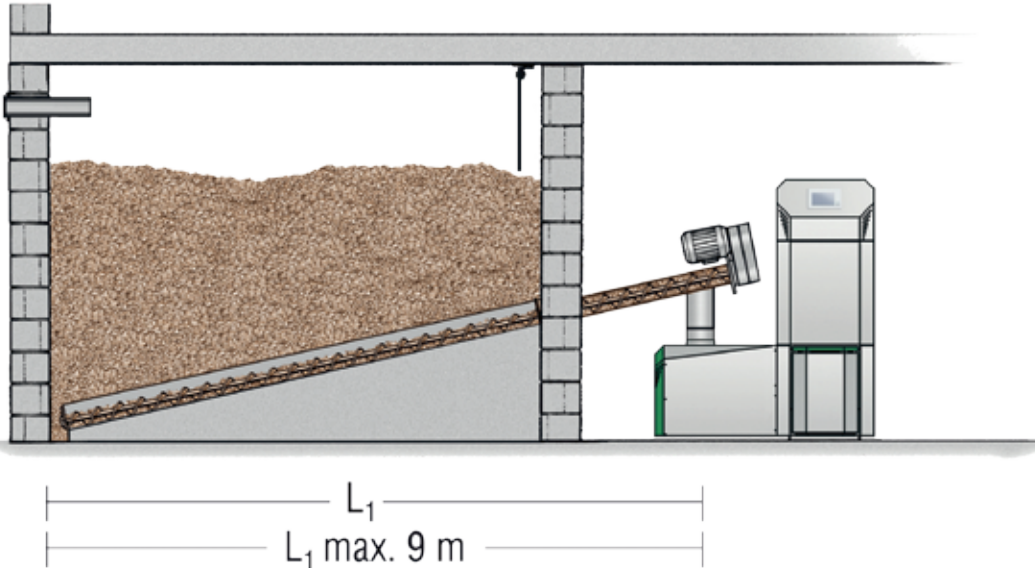


WOOD CHIPS & PELLETS

BioFire

| Accessories | | Art. No. | € | G |
|---|--|--------------|---|---|
| Back flow sets | | | | |
| | Control box for pump switching (integrated time switch) for the double pumps 800 & 1000 kW | 4204810-400 | | Z |
| Flue pipe | | | | |
|  | Draft regulator, diameter 250 mm with ex-flap | 4100250-038 | | Z |
|  | Flue pipe compensator - silencer Ø 300 mm NOTE: The silencer flue gas compensator is supplied as standard and included in the HERZ cyclone! | X000401-300 | | Z |
| SERVICES HERZ BioFire | | | | |
|  | Assembly (boiler and cyclone inclusive one discharge screw) (without: external electrical cabling and transportation into the boiler room, hydraulic connection, flue pipe connection,...) (net, without discount) | | | |
| | in Austria | X000100-650A | * | - |
| | Commissioning and initial training by factory customer service (net, without discount) | | | |
| | in Austria | X000100-652A | * | - |
| | Commissioning for control-extensions (only applies in combination with system commissioning) (net, without discount) | | | |
| | in Austria | X000132-000A | * | - |
| | Second visit for additional training, system check and readjustment (net, without discount) | | | |
| | in Austria | X000100-651A | * | - |



Rigid pellets screw

firematic / BioFire

| Accessories | | Art. No. | € | G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|------------------|-------------|-------------|-------------------------------------|------------------|----------|------------------|-------------|------------------|-------------------------------------|-------------|---|------------------|----------|-------------|---|------------------|----------|-------------|---|------------------|----------|-------------|---|------------------|----------|-------------|---|-------------------|----------|-------------|---|-------------------|----------|-------------|---|-------------------|----------|-------------|---|-------------------|----------|-------------|---|-------------------|----------|-------------|---|-------------------|----------|-------------|---|------------------|----------|-------------|---|------------------|----------|-------------|---|------------------|----------|-------------|---|------------------|----------|-------------|---|------------------|----------|-------------|---|------------------|----------|-------------|---|--|--|--|
| <div>PELLETS</div> <div>firematic 20-501 BioFire 500-1500</div> <div>Rigid pellets screw systems (3 phase, 400 Volt)</div> |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | <div>Basic set rigid pellets screw system consisting of:</div> <ul style="list-style-type: none">– Screw with pressure release– Screw with progressive slope– Drive motor 400 Volt– Closed screw channel <div>Screw system length until:</div> <table><tr><td>firematic 20-201</td><td>L1 = 3 m</td><td>A013000-000</td><td>L</td></tr><tr><td>firematic 20-201</td><td>L1 = 4 m</td><td>A014000-000</td><td>L</td></tr><tr><td>firematic 20-201</td><td>L1 = 5 m</td><td>A015000-000</td><td>L</td></tr><tr><td>firematic 20-201</td><td>L1 = 6 m</td><td>A016000-000</td><td>L</td></tr><tr><td>firematic 20-201</td><td>L1 = 7 m</td><td>A017000-000</td><td>L</td></tr><tr><td>firematic 20-201</td><td>L1 = 8 m</td><td>A018000-000</td><td>L</td></tr><tr><td>firematic 20-201</td><td>L1 = 9 m</td><td>A019000-000</td><td>L</td></tr><tr><td>firematic 249-501</td><td>L1 = 4 m</td><td>A014500-400</td><td>L</td></tr><tr><td>firematic 249-501</td><td>L1 = 5 m</td><td>A015500-500</td><td>L</td></tr><tr><td>firematic 249-501</td><td>L1 = 6 m</td><td>A016500-600</td><td>L</td></tr><tr><td>firematic 249-501</td><td>L1 = 7 m</td><td>A017500-700</td><td>L</td></tr><tr><td>firematic 249-501</td><td>L1 = 8 m</td><td>A018500-800</td><td>L</td></tr><tr><td>firematic 249-501</td><td>L1 = 9 m</td><td>A019500-900</td><td>L</td></tr><tr><td>BioFire 500-1500</td><td>L1 = 4 m</td><td>A014600-400</td><td>L</td></tr><tr><td>BioFire 500-1500</td><td>L1 = 5 m</td><td>A015600-500</td><td>L</td></tr><tr><td>BioFire 500-1500</td><td>L1 = 6 m</td><td>A016600-600</td><td>L</td></tr><tr><td>BioFire 500-1500</td><td>L1 = 7 m</td><td>A017600-700</td><td>L</td></tr><tr><td>BioFire 500-1500</td><td>L1 = 8 m</td><td>A018600-800</td><td>L</td></tr><tr><td>BioFire 500-1500</td><td>L1 = 9 m</td><td>A019600-900</td><td>L</td></tr></table> | firematic 20-201 | L1 = 3 m | A013000-000 | L | firematic 20-201 | L1 = 4 m | A014000-000 | L | firematic 20-201 | L1 = 5 m | A015000-000 | L | firematic 20-201 | L1 = 6 m | A016000-000 | L | firematic 20-201 | L1 = 7 m | A017000-000 | L | firematic 20-201 | L1 = 8 m | A018000-000 | L | firematic 20-201 | L1 = 9 m | A019000-000 | L | firematic 249-501 | L1 = 4 m | A014500-400 | L | firematic 249-501 | L1 = 5 m | A015500-500 | L | firematic 249-501 | L1 = 6 m | A016500-600 | L | firematic 249-501 | L1 = 7 m | A017500-700 | L | firematic 249-501 | L1 = 8 m | A018500-800 | L | firematic 249-501 | L1 = 9 m | A019500-900 | L | BioFire 500-1500 | L1 = 4 m | A014600-400 | L | BioFire 500-1500 | L1 = 5 m | A015600-500 | L | BioFire 500-1500 | L1 = 6 m | A016600-600 | L | BioFire 500-1500 | L1 = 7 m | A017600-700 | L | BioFire 500-1500 | L1 = 8 m | A018600-800 | L | BioFire 500-1500 | L1 = 9 m | A019600-900 | L | | | |
| firematic 20-201 | L1 = 3 m | A013000-000 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| firematic 20-201 | L1 = 4 m | A014000-000 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| firematic 20-201 | L1 = 5 m | A015000-000 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| firematic 20-201 | L1 = 6 m | A016000-000 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| firematic 20-201 | L1 = 7 m | A017000-000 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| firematic 20-201 | L1 = 8 m | A018000-000 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| firematic 20-201 | L1 = 9 m | A019000-000 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| firematic 249-501 | L1 = 4 m | A014500-400 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| firematic 249-501 | L1 = 5 m | A015500-500 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| firematic 249-501 | L1 = 6 m | A016500-600 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| firematic 249-501 | L1 = 7 m | A017500-700 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| firematic 249-501 | L1 = 8 m | A018500-800 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| firematic 249-501 | L1 = 9 m | A019500-900 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BioFire 500-1500 | L1 = 4 m | A014600-400 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BioFire 500-1500 | L1 = 5 m | A015600-500 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BioFire 500-1500 | L1 = 6 m | A016600-600 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BioFire 500-1500 | L1 = 7 m | A017600-700 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BioFire 500-1500 | L1 = 8 m | A018600-800 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BioFire 500-1500 | L1 = 9 m | A019600-900 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | <div>Surcharge for splitted discharge system (from 4 m screw length)</div> <table><tr><td>firematic 20-201</td><td>A010100-100</td><td>L</td></tr><tr><td>firematic 249-501, BioFire 500-1500</td><td>A010500-100</td><td>L</td></tr></table> <div>Surcharge for splitted discharge system incl. holder (from 6 m screw length)</div> <table><tr><td>firematic 20-201</td><td>A010100-200</td><td>L</td></tr><tr><td>firematic 249-501, BioFire 500-1500</td><td>A010500-200</td><td>L</td></tr></table> | firematic 20-201 | A010100-100 | L | firematic 249-501, BioFire 500-1500 | A010500-100 | L | firematic 20-201 | A010100-200 | L | firematic 249-501, BioFire 500-1500 | A010500-200 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| firematic 20-201 | A010100-100 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| firematic 249-501, BioFire 500-1500 | A010500-100 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| firematic 20-201 | A010100-200 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| firematic 249-501, BioFire 500-1500 | A010500-200 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Rigid pellets screw

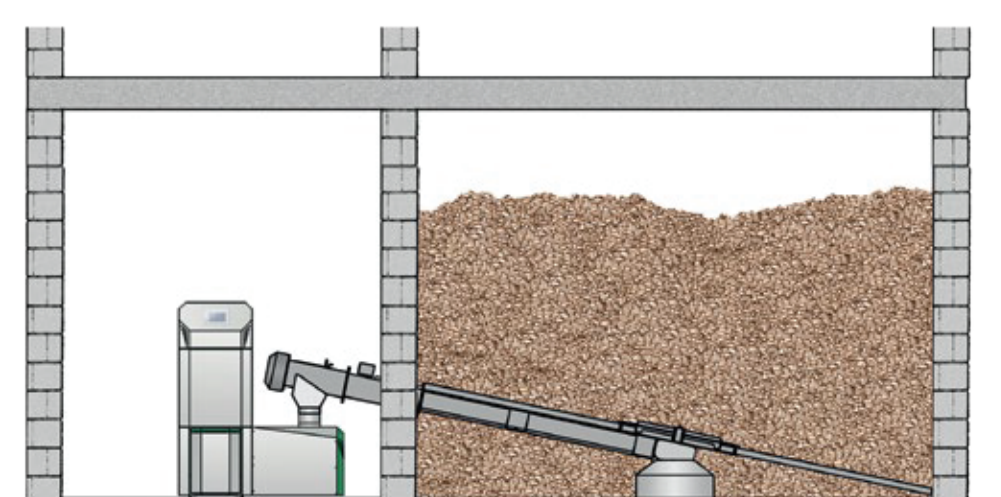
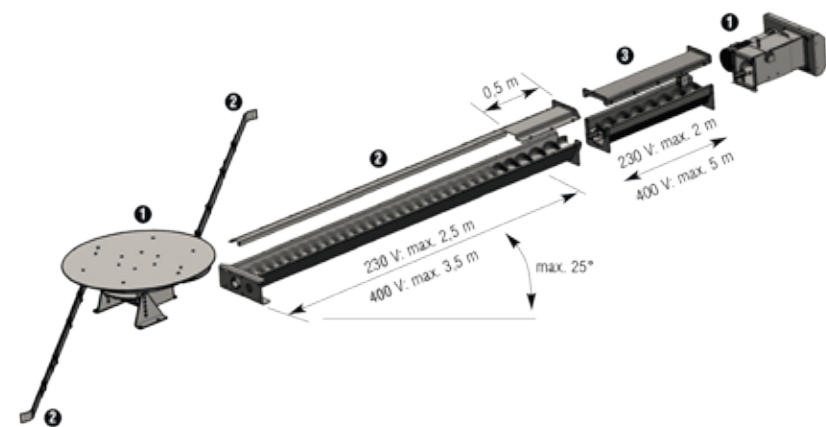
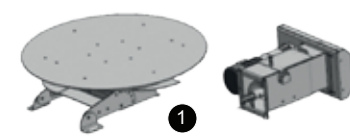

firematic / BioFire

| Accessories | | Art. No. | € | G |
|---|--|----------------|---|---|
|   | Connection piece discharge system to BFP | | | |
| | firematic 20-201, firematic 120-201 PELLET (0-20°) | A082004-122 | | L |
| | firematic 20-201, firematic 120-201 PELLET (21-45°) | A082004-130 | | L |
| | firematic 249-501 (0-20°) | A066004-090 | | L |
| | firematic 249-501 (21-45°) | A066004-095 | | L |
| | BioFire 500-1500 (0-35°) | Not necessary! | | |
| | GUIDELINE – maximum possible angles: 0-15° (reconommended by HERZ) or 25° with agitator system. The best emptying is achievable with a horizontal installation. 15-30° with climbing screw, 0-45° with transport screw, rigid pellets screw 0-35° | | | |

2

Modular agitator system

firematic

| Accessories | | Art. No. | € | G |
|--|---|---|---------------------------|---|
| <p>WOOD CHIPS & PELLETS</p> <p>firematic 20-501</p> <p>Modular agitator system 1~ 230 Volt or 3~ 400 Volt:</p> <p>for wood chips according EN ISO 17225-4: Property class A1,A2, B1 and particle size P16S, P31S</p> <p>for wood pellets (Ø 6mm) according EN ISO 17225-2: Property class A1, A2 ENplus, DINplus or Swisspellet</p> | |  | | |
|  | | | | |
| Planning notes / guidelines: | | 230 volt | 400 volt | |
| Agitator Ø [m]: | | 2/2,5/3/3,5/4/4,5/5 | 2/2,5/3/3,5/4/4,5/5/5,5/6 | |
| Length open part (trough) [m]: | | max. 2,5 | max. 3,5 | |
| Length closed part (extensions) [m]: | | max. 2 | max. 5 | |
| Max. bulk height for pellets [m]: | | 3 | 4 | |
| Max. bulk height for wood chips [m]: | | 4 | 6 | |
| Angle (the best emptying is with a horizontal installation achievable): | | max. 25° | max. 25° | |
|  | (1) Basic set modular system consisting of: | <ul style="list-style-type: none">– Agitator disc, console and screw– Endpiece, motor, motor stub, gearbox | | |
| | firematic 20-201 (230 Volt) | A402000-605 | L | |
| | firematic 20-201 (400 Volt) | A402000-610 | L | |
| | firematic 249-351 (400 Volt) | A402000-620 | L | |
| | firematic 399-501 (400 Volt) | A402000-630 | L | |
|  | Control extension for discharge systems 400 Volt: | | | |
| | Internal control extension for 1 motor 400 Volt: for firematic 45-60 | 5120300-095 | Z | |
| | External control extension for 1 motor 400 Volt for firematic 20-60 & firematic CONDENSATION 30-40 | X000100-120 | Z | |

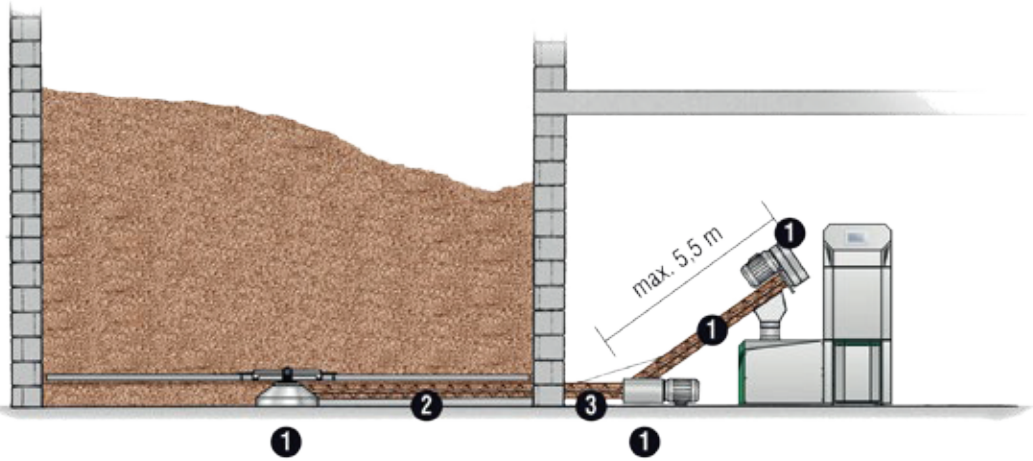
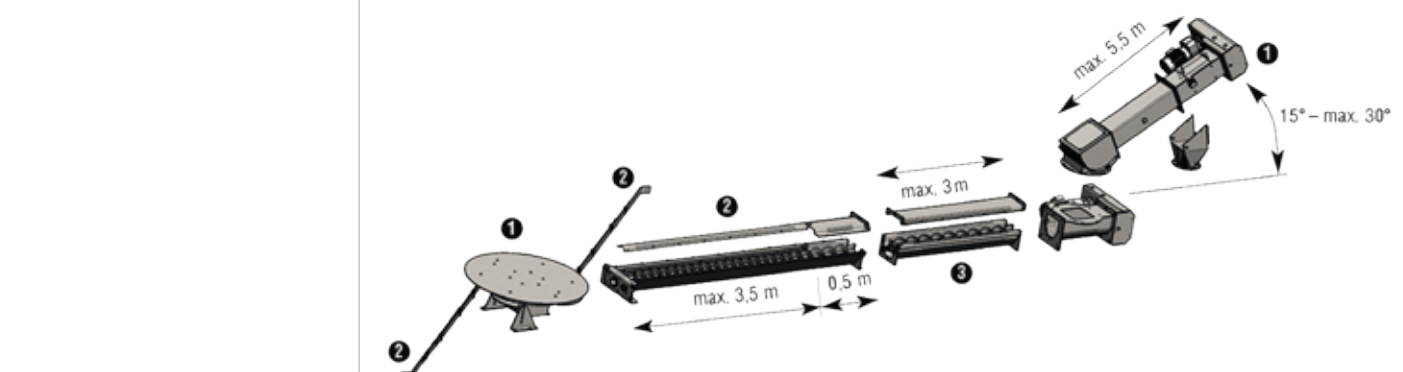
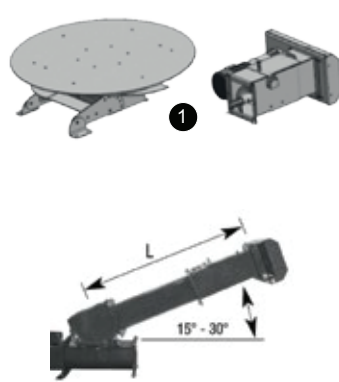


Modular agitator system

firematic

| Accessories | | Art. No. | € | G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|------------------------|----------------------|-------------|-------------------|-------------|------------|-------------|-----------------------------|-----------|------------|-------------|---|-----------|-----------------------------|-------------|-------|-------------|------------|-------------|-----------------------------|-----------|-------------|-------------|---|-----------|-----------------------------|-------------|-------|-------------|-------------|-------------|-----------------------------|-----------|-------------|-------------|---|-----------|-----------------------------|-------------|-------|-------------|---|-----------|-----------------------------|-----|-------|-------------|---|-----------|-----------------------------|-----|-------|-------------|---|-----------|-----------------------------|-----|-------|-------------|---|-----------|-----------------------------|--------------|-------|-------------|---|-----------|-----------------------------|-------------|-------|-------------|---|--|--|--|
|  | <p>(2) Set trough consisting of:</p> <ul style="list-style-type: none">– Spring arms (for the agitator)– Screw channel (upper & lower part) incl. wall duct piece– Screw <table><thead><tr><th>Agitator</th><th>Total length trough*</th><th>Open part</th><th>Wall duct</th><th></th><th></th></tr></thead><tbody><tr><td>Ø = 2,0 m</td><td>L_{total} = 1,50 m</td><td>Ø/2</td><td>0,5 m</td><td>A402002-602</td><td>L</td></tr><tr><td>Ø = 2,5 m</td><td>L_{total} = 1,75 m</td><td>Ø/2</td><td>0,5 m</td><td>A402502-602</td><td>L</td></tr><tr><td>Ø = 3,0 m</td><td>L_{total} = 2,00 m</td><td>Ø/2</td><td>0,5 m</td><td>A403002-602</td><td>L</td></tr><tr><td>Ø = 3,5 m</td><td>L_{total} = 2,25 m</td><td>Ø/2</td><td>0,5 m</td><td>A403502-602</td><td>L</td></tr><tr><td>Ø = 4,0 m</td><td>L_{total} = 2,50 m</td><td>Ø/2</td><td>0,5 m</td><td>A404002-602</td><td>L</td></tr><tr><td>Ø = 4,5 m</td><td>L_{total} = 2,75 m</td><td>Ø/2</td><td>0,5 m</td><td>A404502-602</td><td>L</td></tr><tr><td>Ø = 5,0 m</td><td>L_{total} = 3,00 m</td><td>Ø/2</td><td>0,5 m</td><td>A405002-602</td><td>L</td></tr><tr><td>Ø = 5,5 m</td><td>L_{total} = 3,25 m</td><td>Ø/2</td><td>0,5 m</td><td>A405502-602</td><td>L</td></tr><tr><td>Ø = 6,0 m</td><td>L_{total} = 3,50 m</td><td>Ø/2</td><td>0,5 m</td><td>A406002-602</td><td>L</td></tr><tr><td>Ø = 6,0 m</td><td>L_{total} = 3,75 m</td><td>Ø/2 + 0,25 m</td><td>0,5 m</td><td>A406502-602</td><td>L</td></tr><tr><td>Ø = 6,0 m</td><td>L_{total} = 4,00 m</td><td>Ø/2 + 0,5 m</td><td>0,5 m</td><td>A407002-602</td><td>L</td></tr></tbody></table> <p>* Total length = Open part + Wall duct piece</p> | Agitator | Total length trough* | Open part | Wall duct | | | Ø = 2,0 m | L _{total} = 1,50 m | Ø/2 | 0,5 m | A402002-602 | L | Ø = 2,5 m | L _{total} = 1,75 m | Ø/2 | 0,5 m | A402502-602 | L | Ø = 3,0 m | L _{total} = 2,00 m | Ø/2 | 0,5 m | A403002-602 | L | Ø = 3,5 m | L _{total} = 2,25 m | Ø/2 | 0,5 m | A403502-602 | L | Ø = 4,0 m | L _{total} = 2,50 m | Ø/2 | 0,5 m | A404002-602 | L | Ø = 4,5 m | L _{total} = 2,75 m | Ø/2 | 0,5 m | A404502-602 | L | Ø = 5,0 m | L _{total} = 3,00 m | Ø/2 | 0,5 m | A405002-602 | L | Ø = 5,5 m | L _{total} = 3,25 m | Ø/2 | 0,5 m | A405502-602 | L | Ø = 6,0 m | L _{total} = 3,50 m | Ø/2 | 0,5 m | A406002-602 | L | Ø = 6,0 m | L _{total} = 3,75 m | Ø/2 + 0,25 m | 0,5 m | A406502-602 | L | Ø = 6,0 m | L _{total} = 4,00 m | Ø/2 + 0,5 m | 0,5 m | A407002-602 | L | | | |
| Agitator | Total length trough* | Open part | Wall duct | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 2,0 m | L _{total} = 1,50 m | Ø/2 | 0,5 m | A402002-602 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 2,5 m | L _{total} = 1,75 m | Ø/2 | 0,5 m | A402502-602 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 3,0 m | L _{total} = 2,00 m | Ø/2 | 0,5 m | A403002-602 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 3,5 m | L _{total} = 2,25 m | Ø/2 | 0,5 m | A403502-602 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 4,0 m | L _{total} = 2,50 m | Ø/2 | 0,5 m | A404002-602 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 4,5 m | L _{total} = 2,75 m | Ø/2 | 0,5 m | A404502-602 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 5,0 m | L _{total} = 3,00 m | Ø/2 | 0,5 m | A405002-602 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 5,5 m | L _{total} = 3,25 m | Ø/2 | 0,5 m | A405502-602 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 6,0 m | L _{total} = 3,50 m | Ø/2 | 0,5 m | A406002-602 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 6,0 m | L _{total} = 3,75 m | Ø/2 + 0,25 m | 0,5 m | A406502-602 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 6,0 m | L _{total} = 4,00 m | Ø/2 + 0,5 m | 0,5 m | A407002-602 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | <p>(3) Set extension consisting of:</p> <ul style="list-style-type: none">– Closed screw channel (upper and lower part)– Screw <table><tbody><tr><td>Extension</td><td>L = 150 mm</td><td>A402003-601</td><td>L</td></tr><tr><td>Extension</td><td>L = 300 mm</td><td>A402003-603</td><td>L</td></tr><tr><td>Extension</td><td>L = 450 mm</td><td>A402003-604</td><td>L</td></tr><tr><td>Extension</td><td>L = 600 mm</td><td>A402003-606</td><td>L</td></tr><tr><td>Extension</td><td>L = 900 mm</td><td>A402003-609</td><td>L</td></tr><tr><td>Extension</td><td>L = 1200 mm</td><td>A402003-612</td><td>L</td></tr><tr><td>Extension</td><td>L = 1500 mm</td><td>A402003-615</td><td>L</td></tr><tr><td>Extension</td><td>L = 2000 mm</td><td>A402003-620</td><td>L</td></tr><tr><td>Extension</td><td>L = 2500 mm</td><td>A402003-625</td><td>L</td></tr><tr><td>Extension</td><td>L = 3000 mm</td><td>A402003-630</td><td>L</td></tr></tbody></table> | Extension | L = 150 mm | A402003-601 | L | Extension | L = 300 mm | A402003-603 | L | Extension | L = 450 mm | A402003-604 | L | Extension | L = 600 mm | A402003-606 | L | Extension | L = 900 mm | A402003-609 | L | Extension | L = 1200 mm | A402003-612 | L | Extension | L = 1500 mm | A402003-615 | L | Extension | L = 2000 mm | A402003-620 | L | Extension | L = 2500 mm | A402003-625 | L | Extension | L = 3000 mm | A402003-630 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extension | L = 150 mm | A402003-601 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extension | L = 300 mm | A402003-603 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extension | L = 450 mm | A402003-604 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extension | L = 600 mm | A402003-606 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extension | L = 900 mm | A402003-609 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extension | L = 1200 mm | A402003-612 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extension | L = 1500 mm | A402003-615 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extension | L = 2000 mm | A402003-620 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extension | L = 2500 mm | A402003-625 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extension | L = 3000 mm | A402003-630 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| for open screw channel | A402002-690 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| for closed trough | A402003-690 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | <p>Support foot for horizontal screw</p> <ul style="list-style-type: none">– 5,5 metres diameter necessary (for the open part)– each 2 metres necessary (for the closed part) <table><tbody><tr><td>for open screw channel</td><td>A402002-680</td><td>L</td></tr><tr><td>for closed trough</td><td>A402003-680</td><td>L</td></tr></tbody></table> | for open screw channel | A402002-680 | L | for closed trough | A402003-680 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| for open screw channel | A402002-680 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| for closed trough | A402003-680 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | <p>Connection piece agitator system 230 Volt + 400 Volt to BFP-flap for firematic CONDENSATION 30-40 firematic 20-501 firematic 120-201 PELLET</p> <table><tbody><tr><td>0-20°</td><td>A082004-122</td><td>L</td></tr><tr><td>21-45°</td><td>A082004-130</td><td>L</td></tr></tbody></table> | 0-20° | A082004-122 | L | 21-45° | A082004-130 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-20° | A082004-122 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21-45° | A082004-130 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Climbing screw with separate drive

firematic

| Accessories | Art. No. | € | G |
|--|---|---|---|
| <p>WOOD CHIPS & PELLETS</p> <p>firematic 20-501</p> <p>Climbing screw with with separate drive (3~, 400 volt)</p> <p>for wood chips according EN ISO 17225-4: Property class A1,A2, B1 and particle size P16S, P31S</p> <p>for wood pellets (Ø 6mm) according EN ISO 17225-2: Property class A1,A2 ENplus, DINplus or Swisspellet</p> |  | | |
|  | <p>Planning notes / guidelines 400 Volt:</p> <ul style="list-style-type: none"> - Agitator Ø: 2 m / 2,5 m / 3 m / 3,5 m / 4 m / 4,5 m / 5 m / 5,5 m / 6 m - Length open part (trough): max. 3,5 m - Length closed part (extensions): max. 3 m - Max. bulk height for pellets: 4 m - Max. bulk height for wood chips: 6 m - Angle: max. 30° <p>(1) (1) Basic set modular agitator system and climbing screw with separate drive for optimum storage room usage, L = 1,2 m consisting of:</p> <ul style="list-style-type: none"> - Agitator disc, motor, gearbox - 1,2 m climbing screw, motor, gearbox | | |
|  | <p>firematic CONDENSATION 30-40, firematic 20-201, firematic 120-201 PELLET</p> <p>A430009-100</p> <p>firematic 249-349</p> <p>A430009-110</p> <p>firematic 401-501</p> <p>A430009-120</p> | | L |
|  | <p>Screw extension for climbing screw per metre (max. screw length 5.5 m)</p> <p>firematic CONDENSATION 30-40, firematic 20-201, firematic 120-201 PELLET</p> <p>A432200-110</p> <p>firematic 249-501</p> <p>A432500-110</p> <p>Surcharge for splitted discharge system (from 4 m screw length)</p> <p>firematic CONDENSATION 30-40, firematic 20-201, firematic 120-201 PELLET</p> <p>H060259-210</p> <p>firematic 249-501</p> <p>A021500-100</p> | | L |
|  | <p>Control box discharge system for 2 motors for 1 discharge screw (AS1) + 1 discharge screw (AS2) or agitator (RW)</p> <p>X000100-113</p> | | L |

Climbing screw with separate drive

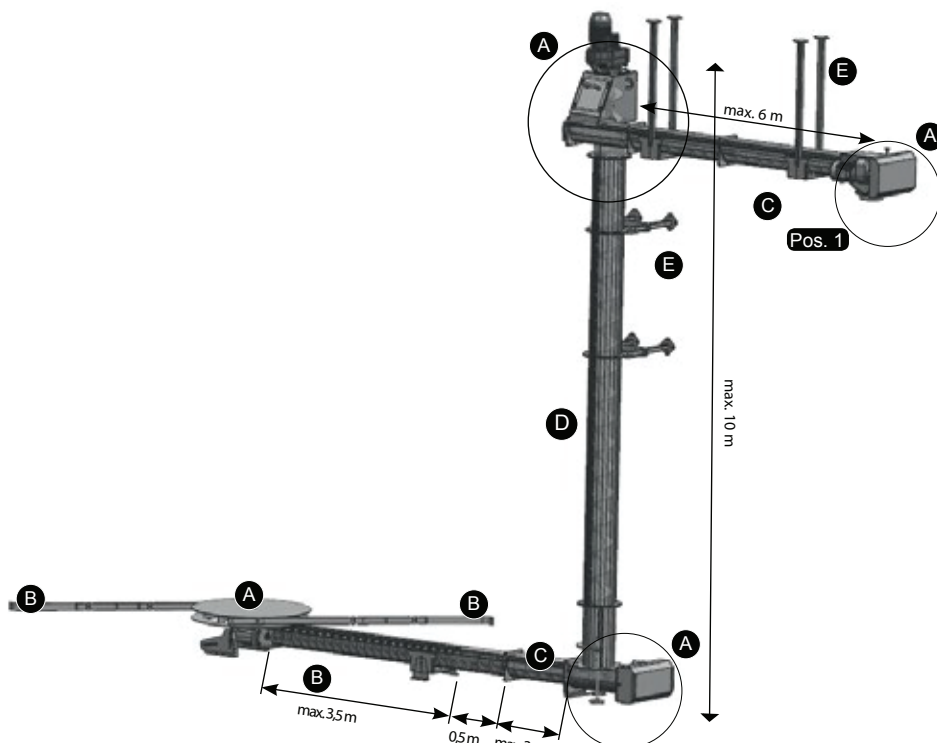
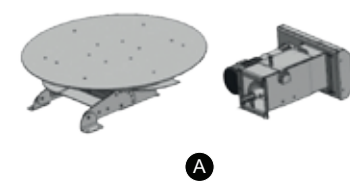
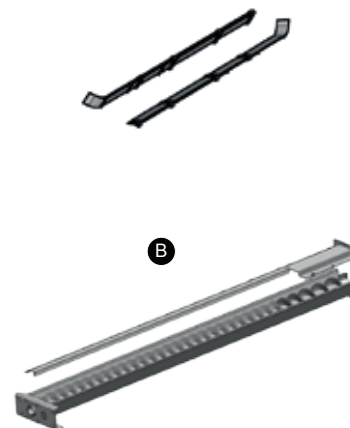
firematic

| Accessories | | Art. No. | € | G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|------------------------|----------------------|-------------|-------------------|-------------|------------|-------------|-----------------------------|-----------|------------|-------------|---|-----------|-----------------------------|-------------|-------|-------------|------------|-------------|-----------------------------|-----------|-------------|-------------|---|-----------|-----------------------------|-------------|-------|-------------|-------------|-------------|-----------------------------|-----------|-------------|-------------|---|-----------|-----------------------------|-------------|-------|-------------|---|-----------|-----------------------------|-----|-------|-------------|---|-----------|-----------------------------|-----|-------|-------------|---|-----------|-----------------------------|-----|-------|-------------|---|-----------|-----------------------------|--------------|-------|-------------|---|-----------|-----------------------------|-------------|-------|-------------|---|--|--|--|
|  | <p>(2) Set trough consisting of:</p> <ul style="list-style-type: none">– Spring arms (for the agitator)– Channel (top & bottom) incl. wall duct piece– Screw | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | <table><thead><tr><th>Agitator</th><th>Total length trough*</th><th>Open part</th><th>Wall duct</th><th></th><th></th></tr></thead><tbody><tr><td>Ø = 2,0 m</td><td>L_{total} = 1,50 m</td><td>Ø/2</td><td>0,5 m</td><td>A402002-602</td><td>L</td></tr><tr><td>Ø = 2,5 m</td><td>L_{total} = 1,75 m</td><td>Ø/2</td><td>0,5 m</td><td>A402502-602</td><td>L</td></tr><tr><td>Ø = 3,0 m</td><td>L_{total} = 2,00 m</td><td>Ø/2</td><td>0,5 m</td><td>A403002-602</td><td>L</td></tr><tr><td>Ø = 3,5 m</td><td>L_{total} = 2,25 m</td><td>Ø/2</td><td>0,5 m</td><td>A403502-602</td><td>L</td></tr><tr><td>Ø = 4,0 m</td><td>L_{total} = 2,50 m</td><td>Ø/2</td><td>0,5 m</td><td>A404002-602</td><td>L</td></tr><tr><td>Ø = 4,5 m</td><td>L_{total} = 2,75 m</td><td>Ø/2</td><td>0,5 m</td><td>A404502-602</td><td>L</td></tr><tr><td>Ø = 5,0 m</td><td>L_{total} = 3,00 m</td><td>Ø/2</td><td>0,5 m</td><td>A405002-602</td><td>L</td></tr><tr><td>Ø = 5,5 m</td><td>L_{total} = 3,25 m</td><td>Ø/2</td><td>0,5 m</td><td>A405502-602</td><td>L</td></tr><tr><td>Ø = 6,0 m</td><td>L_{total} = 3,50 m</td><td>Ø/2</td><td>0,5 m</td><td>A406002-602</td><td>L</td></tr><tr><td>Ø = 6,0 m</td><td>L_{total} = 3,75 m</td><td>Ø/2 + 0,25 m</td><td>0,5 m</td><td>A406502-602</td><td>L</td></tr><tr><td>Ø = 6,0 m</td><td>L_{total} = 4,00 m</td><td>Ø/2 + 0,5 m</td><td>0,5 m</td><td>A407002-602</td><td>L</td></tr></tbody></table> <p>* Total length = Open part + Wall duct piece</p> | Agitator | Total length trough* | Open part | Wall duct | | | Ø = 2,0 m | L _{total} = 1,50 m | Ø/2 | 0,5 m | A402002-602 | L | Ø = 2,5 m | L _{total} = 1,75 m | Ø/2 | 0,5 m | A402502-602 | L | Ø = 3,0 m | L _{total} = 2,00 m | Ø/2 | 0,5 m | A403002-602 | L | Ø = 3,5 m | L _{total} = 2,25 m | Ø/2 | 0,5 m | A403502-602 | L | Ø = 4,0 m | L _{total} = 2,50 m | Ø/2 | 0,5 m | A404002-602 | L | Ø = 4,5 m | L _{total} = 2,75 m | Ø/2 | 0,5 m | A404502-602 | L | Ø = 5,0 m | L _{total} = 3,00 m | Ø/2 | 0,5 m | A405002-602 | L | Ø = 5,5 m | L _{total} = 3,25 m | Ø/2 | 0,5 m | A405502-602 | L | Ø = 6,0 m | L _{total} = 3,50 m | Ø/2 | 0,5 m | A406002-602 | L | Ø = 6,0 m | L _{total} = 3,75 m | Ø/2 + 0,25 m | 0,5 m | A406502-602 | L | Ø = 6,0 m | L _{total} = 4,00 m | Ø/2 + 0,5 m | 0,5 m | A407002-602 | L | | | |
| Agitator | Total length trough* | Open part | Wall duct | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 2,0 m | L _{total} = 1,50 m | Ø/2 | 0,5 m | A402002-602 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 2,5 m | L _{total} = 1,75 m | Ø/2 | 0,5 m | A402502-602 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 3,0 m | L _{total} = 2,00 m | Ø/2 | 0,5 m | A403002-602 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 3,5 m | L _{total} = 2,25 m | Ø/2 | 0,5 m | A403502-602 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 4,0 m | L _{total} = 2,50 m | Ø/2 | 0,5 m | A404002-602 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 4,5 m | L _{total} = 2,75 m | Ø/2 | 0,5 m | A404502-602 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 5,0 m | L _{total} = 3,00 m | Ø/2 | 0,5 m | A405002-602 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 5,5 m | L _{total} = 3,25 m | Ø/2 | 0,5 m | A405502-602 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 6,0 m | L _{total} = 3,50 m | Ø/2 | 0,5 m | A406002-602 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 6,0 m | L _{total} = 3,75 m | Ø/2 + 0,25 m | 0,5 m | A406502-602 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 6,0 m | L _{total} = 4,00 m | Ø/2 + 0,5 m | 0,5 m | A407002-602 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | <p>(3) Set extension consisting of:</p> <ul style="list-style-type: none">– closed screw channel (upper and lower part)– screw | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Extension | L = 150 mm | A402003-601 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extension | L = 300 mm | A402003-603 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extension | L = 450 mm | A402003-604 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extension | L = 600 mm | A402003-606 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extension | L = 900 mm | A402003-609 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extension | L = 1200 mm | A402003-612 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extension | L = 1500 mm | A402003-615 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extension | L = 2000 mm | A402003-620 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extension | L = 2500 mm | A402003-625 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extension | L = 3000 mm | A402003-630 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | <p>Support foot for horizontal screw</p> <ul style="list-style-type: none">– 5,5 metres diameter necessary (for the open part)– each 2 metres necessary (for the closed part) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table><tbody><tr><td>for open screw channel</td><td>A402002-680</td><td>L</td></tr><tr><td>for closed trough</td><td>A402003-680</td><td>L</td></tr></tbody></table> | for open screw channel | A402002-680 | L | for closed trough | A402003-680 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| for open screw channel | A402002-680 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| for closed trough | A402003-680 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | <p>Connection piece agitator system 400 Volt to BFP-flap for firematic CONDENSATION 30-40 firematic 20-501 firematic 120-201 PELLET</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table><tbody><tr><td>0-20°</td><td>A082004-122</td><td>L</td></tr><tr><td>21-45°</td><td>A082004-130</td><td>L</td></tr></tbody></table> | 0-20° | A082004-122 | L | 21-45° | A082004-130 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-20° | A082004-122 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21-45° | A082004-130 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | <p>Surcharge for stronger drive motor:</p> <ul style="list-style-type: none">– from 6 m transport screw length– from 2,5 m climbing screw length | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table><tbody><tr><td>X000107-000</td><td>L</td></tr></tbody></table> | X000107-000 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X000107-000 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | <p>Assembly climbing screw (valid in combination with boiler assembly) - (without external electrical cabling and transportation into the boiler room), (net, without discount)</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table><tbody><tr><td>in Austria</td><td>X000100-466A</td><td>*</td><td>-</td></tr></tbody></table> | in Austria | X000100-466A | * | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| in Austria | X000100-466A | * | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* Assembly and comissioning prices are available in the „HERZ Service Folder“.

Agitator system with vertical transport screw system

firematic

| | | Art. No. | € | G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|-----------|-------------|----------|----------------------|-----------|-----------|--|--|-----------|-----------------------------|-----|-------|-------------|---|-----------|-----------------------------|-----|-------|-------------|---|-----------|-----------------------------|-----|-------|-------------|---|-----------|-----------------------------|-----|-------|-------------|---|-----------|-----------------------------|-----|-------|-------------|---|-----------|-----------------------------|-----|-------|-------------|---|-----------|-----------------------------|-----|-------|-------------|---|-----------|-----------------------------|-----|-------|-------------|---|-----------|-----------------------------|-----|-------|-------------|---|-----------|-----------------------------|--------------|-------|-------------|---|-----------|-----------------------------|-------------|-------|-------------|
| <p>WOOD CHIPS up to P31S & WOOD PELLETS</p> <p>firematic 20-501</p> <p>Vertical transport screw system with horizontal dropping (3 phase, 400 Volt)</p> | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <p>(A)</p> | <p>(A) Basic set modular discharge system consisting of:</p> <ul style="list-style-type: none">- Agitator disc, console and screw- 3 motors 400 Volt- End piece- Drive- Level monitoring- Dropping head- Transition between agitator and vertical screw- Transition between vertical and horizontal screw- Mounting parts at the vertical screw available (mounting parts to the building by customer) <p>Max. length open channel = 3,5 m, max. length closed channel = 3 m, Max. length vertical screw= 10 m, Max. length horizontal screw = 6 m</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>firematic 20-201 (400 Volt) F101800-025 L</p> <p>firematic 249-351 (400 Volt) F101800-035 L</p> <p>firematic 399-501 (400 Volt) F101800-045 L</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <p>(B)</p> | <p>(B) Set trough consisting of:</p> <ul style="list-style-type: none">- Spring arms (for the agitator)- Screw channel (upper & lower part) incl. wall duct piece- Screw | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table><tr><th>Agitator</th><th>Total length trough*</th><th>open part</th><th>wall duct</th><th></th><th></th></tr><tr><td>Ø = 2,0 m</td><td>L_{total} = 1,50 m</td><td>Ø/2</td><td>0,5 m</td><td>A402002-602</td><td>L</td></tr><tr><td>Ø = 2,5 m</td><td>L_{total} = 1,75 m</td><td>Ø/2</td><td>0,5 m</td><td>A402502-602</td><td>L</td></tr><tr><td>Ø = 3,0 m</td><td>L_{total} = 2,00 m</td><td>Ø/2</td><td>0,5 m</td><td>A403002-602</td><td>L</td></tr><tr><td>Ø = 3,5 m</td><td>L_{total} = 2,25 m</td><td>Ø/2</td><td>0,5 m</td><td>A403502-602</td><td>L</td></tr><tr><td>Ø = 4,0 m</td><td>L_{total} = 2,50 m</td><td>Ø/2</td><td>0,5 m</td><td>A404002-602</td><td>L</td></tr><tr><td>Ø = 4,5 m</td><td>L_{total} = 2,75 m</td><td>Ø/2</td><td>0,5 m</td><td>A404502-602</td><td>L</td></tr><tr><td>Ø = 5,0 m</td><td>L_{total} = 3,00 m</td><td>Ø/2</td><td>0,5 m</td><td>A405002-602</td><td>L</td></tr><tr><td>Ø = 5,5 m</td><td>L_{total} = 3,25 m</td><td>Ø/2</td><td>0,5 m</td><td>A405502-602</td><td>L</td></tr><tr><td>Ø = 6,0 m</td><td>L_{total} = 3,50 m</td><td>Ø/2</td><td>0,5 m</td><td>A406002-602</td><td>L</td></tr><tr><td>Ø = 6,0 m</td><td>L_{total} = 3,75 m</td><td>Ø/2 + 0,25 m</td><td>0,5 m</td><td>A406502-602</td><td>L</td></tr><tr><td>Ø = 6,0 m</td><td>L_{total} = 4,00 m</td><td>Ø/2 + 0,5 m</td><td>0,5 m</td><td>A407002-602</td><td>L</td></tr></table> <p>* Total length = Open part + Wall duct piece</p> | | | | Agitator | Total length trough* | open part | wall duct | | | Ø = 2,0 m | L _{total} = 1,50 m | Ø/2 | 0,5 m | A402002-602 | L | Ø = 2,5 m | L _{total} = 1,75 m | Ø/2 | 0,5 m | A402502-602 | L | Ø = 3,0 m | L _{total} = 2,00 m | Ø/2 | 0,5 m | A403002-602 | L | Ø = 3,5 m | L _{total} = 2,25 m | Ø/2 | 0,5 m | A403502-602 | L | Ø = 4,0 m | L _{total} = 2,50 m | Ø/2 | 0,5 m | A404002-602 | L | Ø = 4,5 m | L _{total} = 2,75 m | Ø/2 | 0,5 m | A404502-602 | L | Ø = 5,0 m | L _{total} = 3,00 m | Ø/2 | 0,5 m | A405002-602 | L | Ø = 5,5 m | L _{total} = 3,25 m | Ø/2 | 0,5 m | A405502-602 | L | Ø = 6,0 m | L _{total} = 3,50 m | Ø/2 | 0,5 m | A406002-602 | L | Ø = 6,0 m | L _{total} = 3,75 m | Ø/2 + 0,25 m | 0,5 m | A406502-602 | L | Ø = 6,0 m | L _{total} = 4,00 m | Ø/2 + 0,5 m | 0,5 m | A407002-602 |
| Agitator | Total length trough* | open part | wall duct | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 2,0 m | L _{total} = 1,50 m | Ø/2 | 0,5 m | A402002-602 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 2,5 m | L _{total} = 1,75 m | Ø/2 | 0,5 m | A402502-602 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 3,0 m | L _{total} = 2,00 m | Ø/2 | 0,5 m | A403002-602 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 3,5 m | L _{total} = 2,25 m | Ø/2 | 0,5 m | A403502-602 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 4,0 m | L _{total} = 2,50 m | Ø/2 | 0,5 m | A404002-602 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 4,5 m | L _{total} = 2,75 m | Ø/2 | 0,5 m | A404502-602 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 5,0 m | L _{total} = 3,00 m | Ø/2 | 0,5 m | A405002-602 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 5,5 m | L _{total} = 3,25 m | Ø/2 | 0,5 m | A405502-602 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 6,0 m | L _{total} = 3,50 m | Ø/2 | 0,5 m | A406002-602 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 6,0 m | L _{total} = 3,75 m | Ø/2 + 0,25 m | 0,5 m | A406502-602 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 6,0 m | L _{total} = 4,00 m | Ø/2 + 0,5 m | 0,5 m | A407002-602 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Agitator system with vertical transport screw system

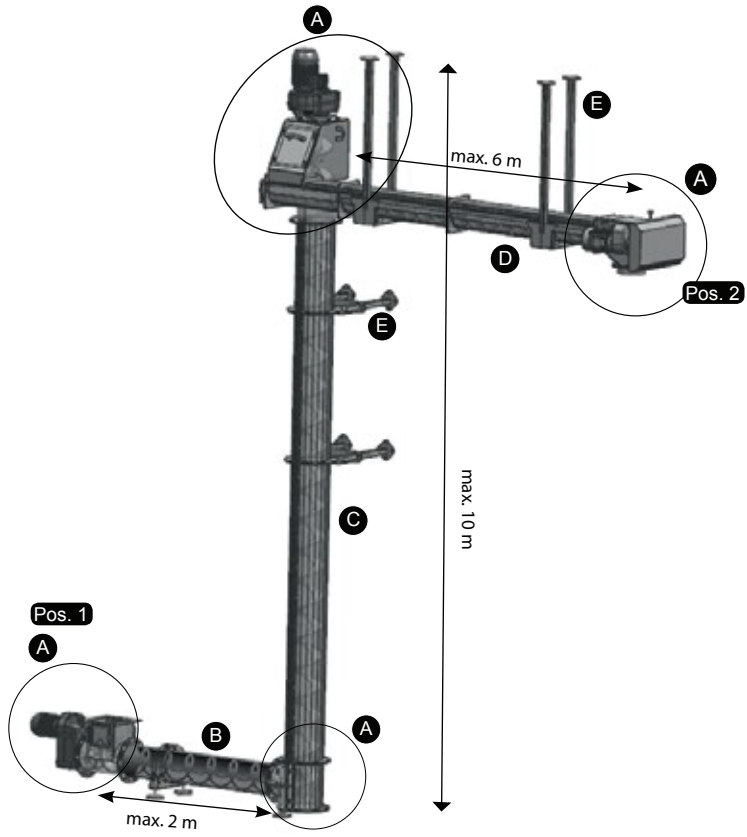


firematic

| | | Art. No. | € | G |
|---|--|-------------|---|---|
|  | (C) Set extension consisting of: – Closed screw channel (upper and lower part) – Screw | | | |
| | Extension L = 150 mm | A402003-601 | | L |
| | Extension L = 300 mm | A402003-603 | | L |
| | Extension L = 450 mm | A402003-604 | | L |
| | Extension L = 600 mm | A402003-606 | | L |
| | Extension L = 900 mm | A402003-609 | | L |
| | Extension L = 1200 mm | A402003-612 | | L |
| | Extension L = 1500 mm | A402003-615 | | L |
| | Extension L = 2000 mm | A402003-620 | | L |
| | Extension L = 2500 mm | A402003-625 | | L |
| | Extension L = 3000 mm | A402003-630 | | L |
|  | Support foot for horizontal screw – 5,5 metres diameter necessary (for the open part) – each 2 metres necessary (for the closed part) | | | |
| | for open screw channel | A402002-680 | | L |
| | for closed trough | A402003-680 | | L |
|  | (D) Extension set for screw L = 1000 mm consisting of: – Pipe & flange – Massive coreless screw | F102002-100 | | L |
|  | Mounting set for vertical screw consisting of: – 6 mounting plates (3x horizontal, 3x vertical) for mounting track system 41x41x2,5 – Ceiling and wall mounting brackets (12 pcs.) | F101800-055 | | L |
| | Mounting track 2 m price / piece (1 pc. 2 metres, max. suspension 2 metres) (Mounting material not included!) | 2411200-001 | | L |
|  | (1) Connection piece vertical transport system to BFP-flap firematic 20-501 | A082004-122 | | L |
| | (2) (2) Chute pipe Ø 195 (per metre) firematic 20-501 | H051507-700 | | L |
| | (3a, 3b) Connection piece | H031208-755 | | L |
| | (3c) if necessary - longer connection piece for floor breakthrough firematic 20-501 (Ø 195) | H031208-770 | | L |
| | (4) connection clamps for transport tube and chute pipe (price/piece) firematic 20-501 (Ø 195) | H051507-800 | | L |
|  | Control box discharge system for 3 motors and 3 discharge screws (AS1, AS2, AS3) + 2 x level control with light sensor | X000100-118 | | L |
| | Assembly agitator with vertical discharge system for firematic according to „HERZ Service Folder“. | | | |
|  | If the project differs from the version shown in the price list, the project has to be treated as a special order and has to be requested! | | | |

2

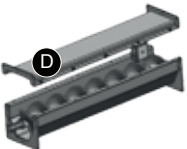
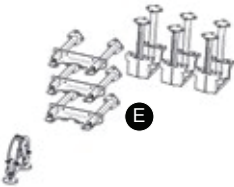
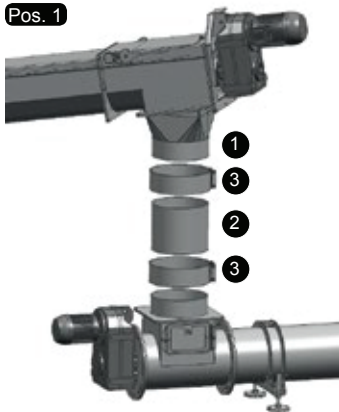
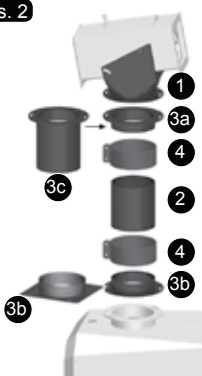
Vertical transport screw system

firematic

| Accessories | Art. No. | € | G |
|--|--|-------------|---|
| <p>WOOD CHIPS up to P31S & WOOD PELLETS</p> <p>firematic 20-501</p> <p>Vertical transport screw system with horizontal dropping (3 phase, 400 Volt)</p> <p>As a combination with the modular agitator system or the rigid pellets screw</p> |  | | |
| | <p>(A) Basic set consisting of: :</p> <ul style="list-style-type: none"> - 3x motors 400 Volt - Lid end switch at the transition and the dropping - Connection piece to the discharge system - Transfer between pressing screw and vertical screw - Transition between vertical and horizontal screw - Mounting parts at the vertical screw available (mounting parts to the building by customer) <p>Max. length pressing screw = 2 m, max. length vertical screw = 10 m, max. length horizontal screw = 6 m</p> <p>firematic 20-501</p> | F101800-050 | L |
|  | <p>(B) Extension pipe for screw L = 1000 mm consisting of:</p> <ul style="list-style-type: none"> - Pipe & flange - Massive coreless screw | F101803-100 | L |
|  | <p>(C) Extension pipe for screw C L = 1000 mm consisting of:</p> <ul style="list-style-type: none"> - Pipe & flange - Massive coreless screw | F102002-100 | L |



Vertical transport screw system

firematic

| Accessories | | Art. No. | € | G |
|---|--|-------------|---|---|
|  | (D) Extension pipe for screw D consisting of: | | | |
| | – Closed screw channel (upper and lower part) | | | |
| | – Screw | | | |
| | Extension L = 150 mm | A402003-601 | | L |
| | Extension L = 300 mm | A402003-603 | | L |
| | Extension L = 450 mm | A402003-604 | | L |
| | Extension L = 600 mm | A402003-606 | | L |
| | Extension L = 900 mm | A402003-609 | | L |
| | Extension L = 1200 mm | A402003-612 | | L |
| | Extension L = 1500 mm | A402003-615 | | L |
|  | Extension L = 2000 mm | A402003-620 | | L |
| | Extension L = 2500 mm | A402003-625 | | L |
| | Extension L = 3000 mm | A402003-630 | | L |
| | Mounting set for vertical screw consisting of: | | | |
| | – 6 mounting plates (3x horizontal, 3x vertical) for mounting rail system 41x41x2,5 | F101800-055 | | L |
| | – Ceiling and wall mounting brackets (12 pcs.) | | | |
| | Mounting track 2 m | | | |
| | price / piece (1 pc. 2 metres, max. suspension 2 metres) | 2411200-001 | | L |
| | (Mounting material not included!) | | | |
|  | (1) Connection piece discharge system agitator to transport screw | | | |
| | firematic 20-501 (0-20°) | A082004-105 | | L |
| | firematic 20-501 (21-45°) | A082004-110 | | L |
| | (1) Connection piece discharge system rigid pellets screw 400 Volt to transport screw | | | |
| | firematic 20-301 (0-20°) | A082004-105 | | L |
| | firematic 20-301 (21-45°) | A082004-110 | | L |
| | firematic 349-501 (0-20°) | A066004-100 | | L |
| | firematic 349-501 (21-45°) | A066004-110 | | L |
| | IF NECESSARY | | | |
| | (2) Chute pipe Ø 195 (per metre) | | | |
|  | firematic 20-501 | H051507-700 | | L |
| | (3) Connection clamp Ø 195 (price/piece) | | | |
| | firematic 20-501 | H051507-800 | | L |
| | (1) Connection piece vertical transport system to BFP-flap firematic 20-501 | A082004-122 | | L |
| | (2) Chute pipe Ø 195 (per metre) firematic 20-501 | H051507-700 | | L |
| | (3a, 3b) Connection piece | H031208-755 | | L |
| | (3c) if necessary - longer connection piece for floor breakthrough firematic 20-501 (Ø 195) | H031208-770 | | L |
| | (4) Connection clamps for transport tube and chute pipe (price/piece) firematic 20-501 (Ø 195) | H051507-800 | | L |

Vertical transport screw system

firematic

| Accessories | Art. No. | € | G |
|---|--|-------------|---|
|  | Control box for transport system with 4 or 5 motors for 4 discharge screws (AS1, AS2, AS3, AS4) + agitator (RW) + 2x control with light sensor | X000100-115 | L |
| | Assembly vertical transport system for firematic according to „HERZ Service Folder“. | | |
|  | If the project differs from the version shown in the price list, the project has to be treated as a special order and has to be requested! | | |

NOTES

2

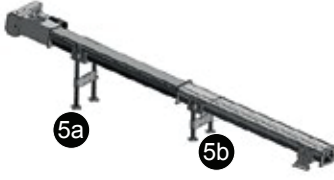

Agitator systems with separate drive and continuous screws

BioFire

| Accessories | | Art. No. | € | G | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|-------------|--------------|-------------|---|-----------|--|-------------|---|-----------|--|-------------|---|-----------|--|-------------|---|-----------|--|-------------|---|-----------|--|-------------|---|-----------|---|-------------|---|--|--|--|
| <div>WOOD CHIPS up to P31S & WOOD PELLETS</div> <div>BioFire 500-1500</div> <div>Agitator system with separate drive and continuous screws 500-1500 kW (3 phase, 400 Volt)</div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <div>Planning notes / guidelines:</div> <ul style="list-style-type: none">– Agitator Ø [m]: 4 m / 4,5 m / 5 m / 5,5 m / 6 m– Length open part (trough): max. 6 m– Length closed part (screw channel): max. 5 m– Length separate drive: max. 6 m– Max. bulk height for pellets: 4 m– Max. bulk height for wood chips: 6 m– Angle: max. 15° - the best emptying is achievable with a horizontal installation– 2 spring arms | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <div>(1) Basic set modular discharge screw consisting of:</div> <ul style="list-style-type: none">– Motor– Open trough discharge screw incl. screw and wall duct– Upper and lower part of the screw trough– Supporting foot (6) <table><thead><tr><th>Open trough</th><th>Total length</th><th></th><th></th></tr></thead><tbody><tr><td>Ø = 4,0 m</td><td>L_{total} = 4,25 m (Ø + 0,5 m - 0,25 m)</td><td>A564002-000</td><td>L</td></tr><tr><td>Ø = 4,5 m</td><td>L_{total} = 4,75 m (Ø + 0,5 m - 0,25 m)</td><td>A564502-000</td><td>L</td></tr><tr><td>Ø = 5,0 m</td><td>L_{total} = 5,25 m (Ø + 0,5 m - 0,25 m)</td><td>A565002-000</td><td>L</td></tr><tr><td>Ø = 5,5 m</td><td>L_{total} = 5,75 m (Ø + 0,5 m - 0,25 m)</td><td>A565502-000</td><td>L</td></tr><tr><td>Ø = 6,0 m</td><td>L_{total} = 6,25 m (Ø + 0,5 m - 0,25 m)</td><td>A566002-000</td><td>L</td></tr><tr><td>Ø = 6,0 m</td><td>L_{total} = 6,50 m (Ø + 0,5 m)</td><td>A566502-000</td><td>L</td></tr></tbody></table> | Open trough | Total length | | | Ø = 4,0 m | L _{total} = 4,25 m (Ø + 0,5 m - 0,25 m) | A564002-000 | L | Ø = 4,5 m | L _{total} = 4,75 m (Ø + 0,5 m - 0,25 m) | A564502-000 | L | Ø = 5,0 m | L _{total} = 5,25 m (Ø + 0,5 m - 0,25 m) | A565002-000 | L | Ø = 5,5 m | L _{total} = 5,75 m (Ø + 0,5 m - 0,25 m) | A565502-000 | L | Ø = 6,0 m | L _{total} = 6,25 m (Ø + 0,5 m - 0,25 m) | A566002-000 | L | Ø = 6,0 m | L _{total} = 6,50 m (Ø + 0,5 m) | A566502-000 | L | | | |
| Open trough | Total length | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 4,0 m | L _{total} = 4,25 m (Ø + 0,5 m - 0,25 m) | A564002-000 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 4,5 m | L _{total} = 4,75 m (Ø + 0,5 m - 0,25 m) | A564502-000 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 5,0 m | L _{total} = 5,25 m (Ø + 0,5 m - 0,25 m) | A565002-000 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 5,5 m | L _{total} = 5,75 m (Ø + 0,5 m - 0,25 m) | A565502-000 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 6,0 m | L _{total} = 6,25 m (Ø + 0,5 m - 0,25 m) | A566002-000 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø = 6,0 m | L _{total} = 6,50 m (Ø + 0,5 m) | A566502-000 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <div>(2) Closed screw channel for transport screw consisting of:</div> <ul style="list-style-type: none">– Closed screw channel (upper and lower part)– Screw <table><tbody><tr><td>Extension</td><td>L = 250 mm</td><td>A066003-202</td><td>L</td></tr><tr><td>Extension</td><td>L = 500 mm</td><td>A066003-205</td><td>L</td></tr><tr><td>Extension</td><td>L = 1000 mm</td><td>A066003-210</td><td>L</td></tr><tr><td>Extension</td><td>L = 1500 mm</td><td>A066003-215</td><td>L</td></tr><tr><td>Extension</td><td>L = 2000 mm</td><td>A066003-220</td><td>L</td></tr><tr><td>Extension</td><td>L = 3000 mm</td><td>A066003-230</td><td>L</td></tr></tbody></table> | Extension | L = 250 mm | A066003-202 | L | Extension | L = 500 mm | A066003-205 | L | Extension | L = 1000 mm | A066003-210 | L | Extension | L = 1500 mm | A066003-215 | L | Extension | L = 2000 mm | A066003-220 | L | Extension | L = 3000 mm | A066003-230 | L | | | | | | | |
| Extension | L = 250 mm | A066003-202 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extension | L = 500 mm | A066003-205 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extension | L = 1000 mm | A066003-210 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extension | L = 1500 mm | A066003-215 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extension | L = 2000 mm | A066003-220 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extension | L = 3000 mm | A066003-230 | L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Agitator systems with separate drive and continuous screws

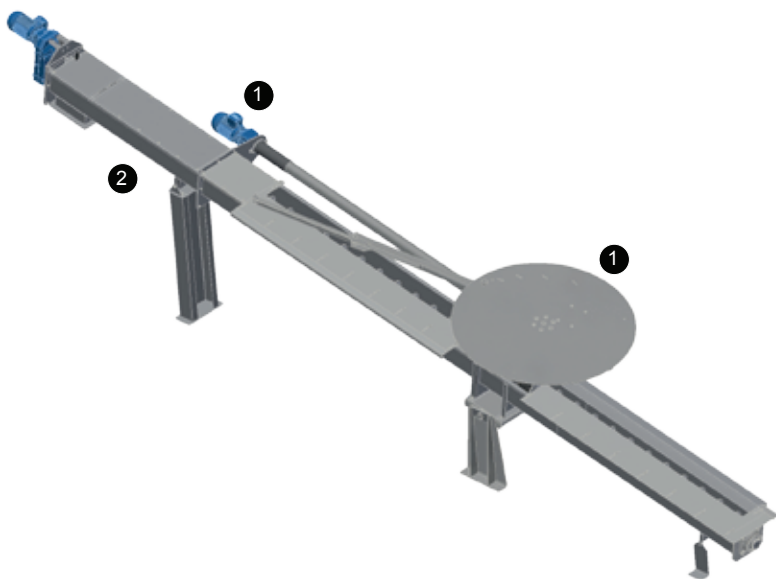
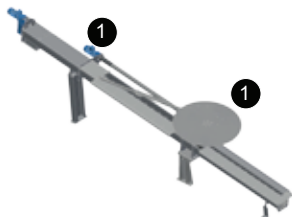
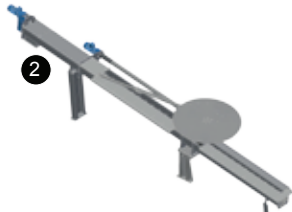

BioFire

| Accessories | Art. No. | € | G |
|--|--|--|--|
|  <p>5a</p> <p>5b</p> | <p>Supporting foot for discharge screw each 2 metres necessary (for the closed part) 5.5 metres diameter necessary (for the open part)</p> <p>(5a) Supporting foot for closed part</p> <p>(5b) Supporting foot for open part</p> | <p>A066003-290</p> <p>A066002-290</p> | <p>L</p> <p>L</p> |
|  | <p>Support foot for horizontal screw each 2 metres necessary (for the closed part) 5.5 metres diameter necessary (for the open part)</p> <p>for open part</p> <p>for open part</p> | <p>A066002-280</p> <p>A066003-280</p> | <p>L</p> <p>L</p> |
|  <p>3</p> <p>7</p> <p>3</p> | <p>(3) Basic set separate drive for 500 - 1000 kW consisting of:</p> <ul style="list-style-type: none"> Motor for separate gear, agitator plate Gear box, 2 spring arms (for the agitator) (3) Supporting foot (7) <p>Spring arm diameter Ø = 4,0 m</p> <p>Spring arm diameter Ø = 4,5 m</p> <p>Spring arm diameter Ø = 5,0 m</p> <p>Spring arm diameter Ø = 5,5 m</p> <p>Spring arm diameter Ø = 6,0 m</p> | <p>A104009-899</p> <p>A104509-899</p> <p>A105009-899</p> <p>A105509-899</p> <p>A106009-899</p> | <p>L</p> <p>L</p> <p>L</p> <p>L</p> <p>L</p> |
|  <p>4</p> | <p>(4) Closed trough for separate drive Consisting of:</p> <ul style="list-style-type: none"> Upper and lower part from the closed trough Shaft <p>Closed trough per metre</p> <p>L = max. 6 m</p> | <p>A100009-898</p> | <p>L</p> |
|  | <p>Support foot for declined separate drive every 2 metres necessary</p> | <p>A082003-290</p> | <p>L</p> |
|  | <p>Support foot for horizontal separate drive every 2 metres necessary</p> | <p>A082003-291</p> | <p>L</p> |
|  | <p>Surcharge for splitted discharge (from 4 m length) for transport screw and separate drive</p> | <p>A021500-100</p> | <p>L</p> |
|  | <p>Control box discharge system for 2 motors for 1 discharge screw (AS1) + 1 discharge screw (AS2) or agitator (RW)</p> | <p>X000100-113</p> | <p>L</p> |
| | <p>Assembly separate drive (valid in combination with boiler assembly) - (without external electrical cabling and transportation into the boiler room), (net, without discount)</p> <p>in Austria</p> | <p>X000100-462A</p> | <p>*</p> <p>-</p> |

* Assembly and comissioning prices are available in the „HERZ Service Folder“.



Articulated arm-agitator system

BioFire

| Accessories | | Art. No. | € | G | | | | | | | | | | | | | | | |
|--|--|----------|---|---|-----------------|-------------|---|-----------------|-------------|---|-----------------|-------------|---|-----------------|-------------|---|-----------------|-------------|---|
| <p>WOOD CHIPS up to P45S + M50 & WOOD PELLETS</p> <p>BioFire 500-1500 BioFire 500-1500 (P45S) BioFire 500-1000 (P45S + M50)</p> <p>Articulated arm-agitator system 500-1500 kW (3 phase, 400 Volt)</p> |  | | | | | | | | | | | | | | | | | | |
| | <p>Planning notes / guidelines:</p> <ul style="list-style-type: none">- Agitator Ø: 3 m / 4 m / 5,5 m- Max. bulk height for pellets: 4 m- Max. bulk height for wood chips: 6 m- 1 Spring arm- Angle: max. 10° - the best emptying is achievable with a horizontal installation | | | | | | | | | | | | | | | | | | |
|  | <p>(1) Basic set articulated arm-agitator system consisting of:</p> <ul style="list-style-type: none">- Cover plate with pretensioned, load-depentend articulated arm including damper- Agitator drive with console, drive shaft and coupling- Gear motor (for agitator) outside of the storage room- Control box elements <table><tr><td>Ø = 3,0 m</td><td>A103000-110</td><td>L</td></tr><tr><td>Ø = 4,0 m</td><td>A104000-110</td><td>L</td></tr><tr><td>Ø = 5,5 m</td><td>A105500-110</td><td>L</td></tr></table> | | | | Ø = 3,0 m | A103000-110 | L | Ø = 4,0 m | A104000-110 | L | Ø = 5,5 m | A105500-110 | L | | | | | | |
| Ø = 3,0 m | A103000-110 | L | | | | | | | | | | | | | | | | | |
| Ø = 4,0 m | A104000-110 | L | | | | | | | | | | | | | | | | | |
| Ø = 5,5 m | A105500-110 | L | | | | | | | | | | | | | | | | | |
|  | <p>(2) Discharge screw to articulated arm agitator</p> <table><tr><td>Length max. 4 m</td><td>A100009-004</td><td>L</td></tr><tr><td>Length max. 5 m</td><td>A100009-005</td><td>L</td></tr><tr><td>Length max. 6 m</td><td>A100009-006</td><td>L</td></tr><tr><td>Length max. 7 m</td><td>A100009-007</td><td>L</td></tr><tr><td>Length max. 8 m</td><td>A100009-008</td><td>L</td></tr></table> | | | | Length max. 4 m | A100009-004 | L | Length max. 5 m | A100009-005 | L | Length max. 6 m | A100009-006 | L | Length max. 7 m | A100009-007 | L | Length max. 8 m | A100009-008 | L |
| Length max. 4 m | A100009-004 | L | | | | | | | | | | | | | | | | | |
| Length max. 5 m | A100009-005 | L | | | | | | | | | | | | | | | | | |
| Length max. 6 m | A100009-006 | L | | | | | | | | | | | | | | | | | |
| Length max. 7 m | A100009-007 | L | | | | | | | | | | | | | | | | | |
| Length max. 8 m | A100009-008 | L | | | | | | | | | | | | | | | | | |
|  | <p>Support foot for declined separate drive every 2 metre necessary</p> <table><tr><td>A100009-012</td><td>L</td></tr></table> | | | | A100009-012 | L | | | | | | | | | | | | | |
| A100009-012 | L | | | | | | | | | | | | | | | | | | |

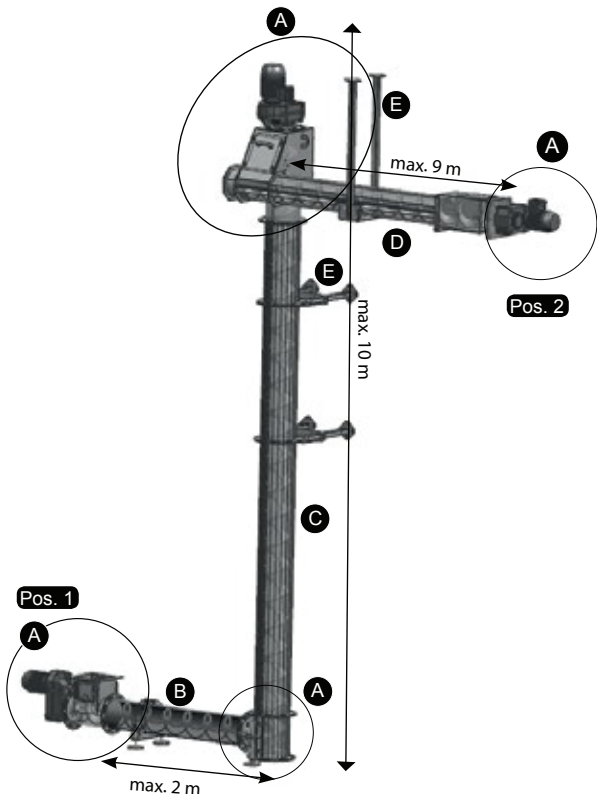


Articulated arm-agitator system

BioFire

| Accessories | Art. No. | € | G |
|---|--|-------------|---|
|  | Connection piece + counterflange discharge system articulated arm agitator on BFP-flap for P45S + M50: for BioFire 500-1500 (P45S), BioFire 500-1000 (P45S + M50) | | |
| | Connection piece + counterflange on BFP-flap | F033003-117 | L |
| | Chute pipe P45S (per metre) | F033003-114 | L |
|  | Control box articulated arm agitator with 2 motors for 1 discharge screw (AS1) + 1 agitator (RW) | X000105-440 | L |
| | Assembly articulated arm agitator system according to „HERZ Service Folder“. | | |

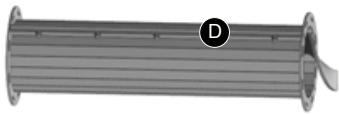
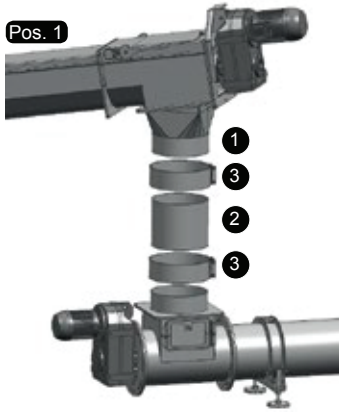

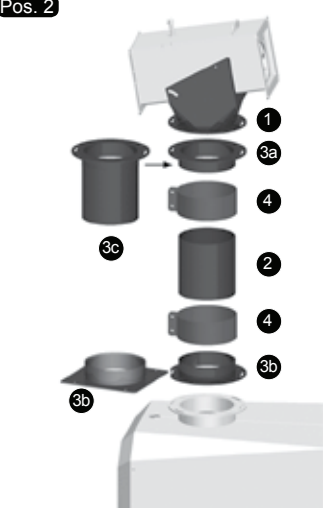
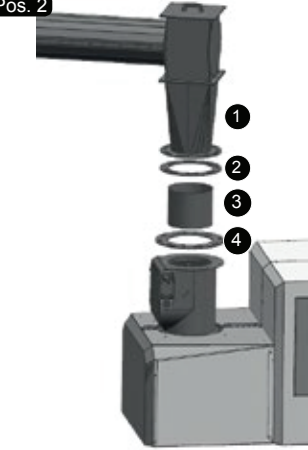
Vertical transport screw system

BioFire

| | | Art. No. | € | G | | | | | | | | | | | | | |
|--|---|---|--------------------|-------------|--|---------------------|-------------|---|---|-------------|---|---|-------------|---|--|--|--|
| <p>WOOD CHIPS up to P45S & WOOD PELLETS</p> <p>BioFire 500-1500</p> <p>Vertical transport screw system with horizontal dropping (3 phase, 400 Volt)</p> <p>As a combination with Agitator systems with separate drive and continuous screw, Articulated arm-agitator system or the rigid pellets screw</p> |  | | | | | | | | | | | | | | | | |
| | | <p>(A) Basic set consisting of: :</p> <ul style="list-style-type: none">– 3x motors 400 Volt– Lid end switch at the transition and the dropping– Connection piece to the discharge system– Transfer between pressing screw and vertical screw– Transition between vertical and horizontal screw– Mounting parts at the vertical screw available (mounting parts to the building by customer) <p>Max. length pressing screw = 2 m, max. length vertical screw = 10 m, max. length horizontal screw = 9 m</p> <table><tr><td>BioFire 500 - 1000</td><td>F101800-100</td><td>L</td></tr><tr><td>BioFire 1250 - 1500</td><td>F101800-150</td><td>L</td></tr><tr><td>BioFire 500-1000 P45S, BioFire 500-600 M50 P45S</td><td>F102600-100</td><td>L</td></tr><tr><td>BioFire 1250-1500 P45S, BioFire 800-1000 M50 P45S</td><td>F102600-150</td><td>L</td></tr></table> | BioFire 500 - 1000 | F101800-100 | L | BioFire 1250 - 1500 | F101800-150 | L | BioFire 500-1000 P45S, BioFire 500-600 M50 P45S | F102600-100 | L | BioFire 1250-1500 P45S, BioFire 800-1000 M50 P45S | F102600-150 | L | | | |
| BioFire 500 - 1000 | F101800-100 | L | | | | | | | | | | | | | | | |
| BioFire 1250 - 1500 | F101800-150 | L | | | | | | | | | | | | | | | |
| BioFire 500-1000 P45S, BioFire 500-600 M50 P45S | F102600-100 | L | | | | | | | | | | | | | | | |
| BioFire 1250-1500 P45S, BioFire 800-1000 M50 P45S | F102600-150 | L | | | | | | | | | | | | | | | |
|  | <p>(B) Extension pipe for screw B (L = 1000 mm) consisting of:</p> <ul style="list-style-type: none">– Pipe & flange– Massive coreless screw <table><tr><td>BioFire 500 - 1500</td><td>F101803-100</td><td>L</td></tr><tr><td>BioFire 500-1500 P45S, BioFire 500-1000 M50 P45S</td><td>F033001-103</td><td>L</td></tr></table> | BioFire 500 - 1500 | F101803-100 | L | BioFire 500-1500 P45S, BioFire 500-1000 M50 P45S | F033001-103 | L | | | | | | | | | | |
| BioFire 500 - 1500 | F101803-100 | L | | | | | | | | | | | | | | | |
| BioFire 500-1500 P45S, BioFire 500-1000 M50 P45S | F033001-103 | L | | | | | | | | | | | | | | | |
|  | <p>(C) Extension pipe for screw (L = 1000 mm) consisting of:</p> <ul style="list-style-type: none">– Pipe & flange– Massive coreless screw <table><tr><td>BioFire 500 - 1500</td><td>F102002-100</td><td>L</td></tr><tr><td>BioFire 500-1500 P45S, BioFire 500-1000 M50 P45S</td><td>F033002-102</td><td>L</td></tr></table> | BioFire 500 - 1500 | F102002-100 | L | BioFire 500-1500 P45S, BioFire 500-1000 M50 P45S | F033002-102 | L | | | | | | | | | | |
| BioFire 500 - 1500 | F102002-100 | L | | | | | | | | | | | | | | | |
| BioFire 500-1500 P45S, BioFire 500-1000 M50 P45S | F033002-102 | L | | | | | | | | | | | | | | | |

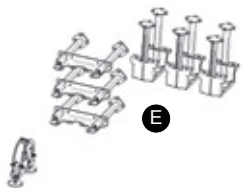


Vertical transport screw system

BioFire

| | Art. No. | € | G |
|---|---|---|-------------|
|  | (D) Extension pipe for screw D (L = 1000 mm) consisting of: – Pipe & flange – Massive coreless screw | | |
| | BioFire 500 - 1500 BioFire 500-1500 P45S, BioFire 500-1000 M50 P45S | F101803-100 F033003-102 | L L |
|  | Transfer discharge system (agitator / rigid pellets screw) to vertical discharge system for BioFire 500-1500 | | |
| | (1) Connection piece discharge system agitator to vertical discharge system BioFire 500-1500 (0-20°) BioFire 500-1500 (21-45°) | A066004-100 A066004-110 | L L |
| | (1) Connection piece discharge system rigid pellets screw to vertical transport discharge system BioFire 500-1500 (0-20°) BioFire 500-1500 (21-45°) | A066004-100 A066004-110 | L L |
| | IF NECESSARY (2) Chute pipe Ø 195 (per metre) (3) Connection clamp Ø 195 (price/piece) | H051507-700 H051507-800 | L L |
|  | Transfer piece + counterflange discharge system articulated arm agitator to vertical transport discharge system for P45S + M50: for BioFire 500-1500 (P45S), BioFire 500-1000 (P45S + M50) | | |
| | (1) + (3) Connection piece + counterflange (2) Chute pipe P45S P45S (per metre) | F033003-116 F033003-114 | L L |
|  | Transition vertical transport discharge system to BFP-flap for BioFire 500-1500 (P31S) | | |
| | (1) Connection piece for the discharge system to a chute pipe | A066004-090 | L |
| | (2) Chute pipe Ø 195 (per metre) | H051507-700 | L |
| | (3a) Connection piece (Ø 195) (3b) Connection piece (Ø 195) | H031208-755 H050508-155 | L L |
|  | IF NECESSARY - longer connection piece for floor breakthrough (3c) Connection piece (Ø 195) (4) Connection clamp Ø 195 (price/piece) | H031208-770 H051507-800 | L L |
| | Transition vertical transport discharge system to BFP-flap for BioFire 500-1500 (P45S) BioFire 500-1000 (P45S + M50) | | |
| | (1) Connection piece for the discharge system to a chute pipe | F033003-115 | L |
| | (2) Flange on the top (3) Chute pipe P45S (per metre) (4) Flange on the bottom | F033001-080 F033003-114 F033003-113 | L L L |

Vertical transport screw system

BioFire

| | | Art. No. | € | G |
|--|---|-------------|---|---|
|  | Mounting set for vertical screw consisting of: | | | |
| | – 6 mounting plates (3x horizontal, 3x vertical) for mounting track system 41x41x2,5 mm | | | |
| | – Ceiling and wall mounting brackets (12 pcs.) | | | |
| | BioFire 500-1500 | F101800-105 | | L |
| | BioFire 500-1500 (P45S), BioFire 500-1000 (P45S + M50) | F102600-105 | | L |
| | Mounting track 2 m price / piece (1 pc. 2 metres, max. suspension 2 metres) (Mounting material not included!) | 2411200-001 | | L |
|  | Control box discharge system for 4 or 5 motors for 4 discharge screws (AS1, AS2, AS3, AS4) + agitator (RW) + 2 x level control with light sensor | X000100-115 | | L |
| | Assembly vertical transport system for firematic according to „HERZ Service Folder“. | | | |
|  | If the project differs from the version shown in the price list, the project has to be treated as a special order and has to be requested! | | | |

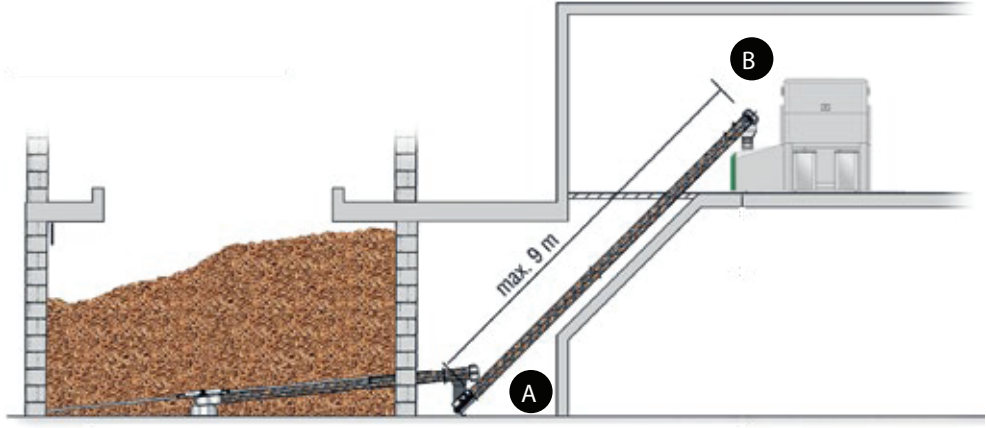
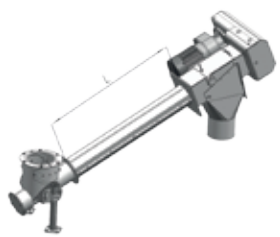
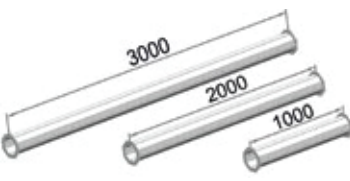
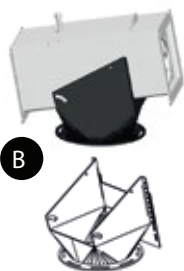


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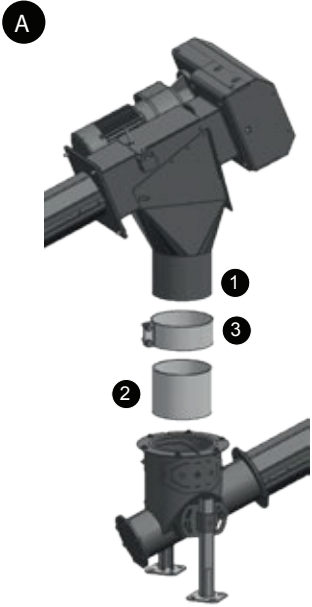
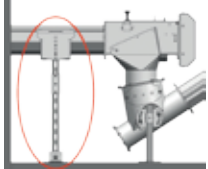



Transport screw

firematic / BioFire

| Accessories | Art. No. | € | G |
|--|--|---|---|
| <p>WOOD CHIPS up to P31S & WOOD PELLETS</p> <p>Feed screw up to 1500 kW (3 phase, 400 Volt)</p> <p>As a combination with agitator modular, agitator systems with separate drive and continuous screw or rigid pellets screw.</p> |  | | |
|  | <p>Basic set discharge screw consisting of:</p> <ul style="list-style-type: none"> - Motor, level monitored interim hopper, supporting foot - Trough with coreless screw (up to 3 metres length Ø 130 mm up to 301 kW & Ø 180 mm up to 1500 kW) <p>firematic 20-301 A067009-250 L</p> <p>firematic 349-501, BioFire 500-1500 A067009-200 L</p> | | |
|  | <p>Screw extension for transport screw (max. 9 m) for firematic 20-301</p> <p>Extension 1 m A067009-195 L</p> <p>Extension 2 m A067009-190 L</p> <p>Extension 3 m A067009-180 L</p> <p>Screw extension for transport screw (max. 9 m) for firematic 349-501 & BioFire 500-1500</p> <p>Extension 1 m A067009-020 L</p> <p>Extension 2 m A067009-010 L</p> <p>Extension 3 m A067009-060 L</p> | | |
| | <p>Surcharge for splitted coreless screw, welding directly on the building site necessary</p> <p>firematic 20-301 A067009-255 L</p> <p>firematic 349-501, BioFire 500-1500 A067009-205 L</p> | | |
|  | <p>Connection piece discharge system 400V to BFP-flap</p> <p>firematic 20-301 (0-20°) A082004-122 L</p> <p>firematic 20-301 (21-45°) A082004-130 L</p> <p>firematic 349-501 (0-20°) A066004-090 L</p> <p>firematic 349-501 (21-45°) A066004-095 L</p> <p>BioFire 500-1500 (0-20°) not necessary L</p> <p>BioFire 500-1500 (21-45°) H050508-165 L</p> <p>Guideline – maximum possible angles 0-15° (reconommended by HERZ) or 25° with agitator system. The best emptying angle is achievable with a horizontal installation. 15-30° with climbing screw, 0-45° with transport screw, rigid pellets screw 0-35°</p> | | |

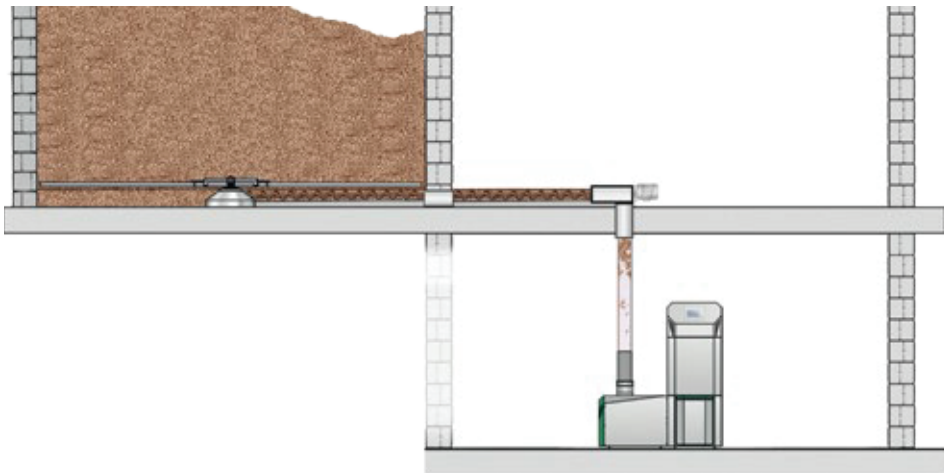
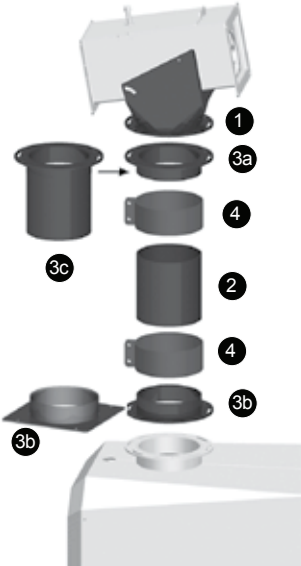
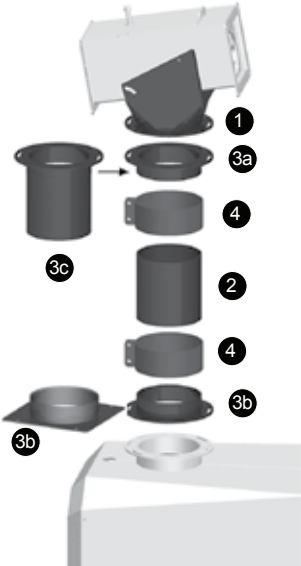
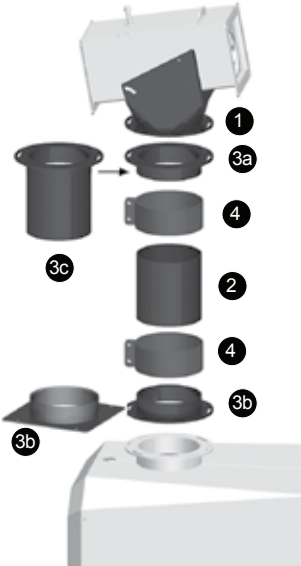

Transport Screw

firematic / BioFire

| Accessories | Art. No. | € | G |
|---|--|-------------|---|
|  | (1) Connection piece discharge system agitator to transport screw | | |
| | firematic 20-501 (0-20°) | A082004-105 | L |
| | firematic 20-501 (21-45°) | A082004-110 | L |
| | BioFire 500-1500 (0-20°) | A066004-100 | L |
| | BioFire 500-1500 (21-45°) | A066004-110 | L |
| | (1) Connection piece discharge system rigid pellets screw 400 Volt to transport screw | | |
| | firematic 20-301 (0-20°) | A082004-105 | L |
| | firematic 20-301 (21-45°) | A082004-110 | L |
| | firematic 349-501, BioFire 500-1500 (0-20°) | A066004-100 | L |
| | firematic 349-501, BioFire 500-1500 (21-45°) | A066004-110 | L |
|  | IF NECESSARY | | |
| | (2) Chute pipe Ø 195 (per metre) | | |
| | firematic 20-501, BioFire 500-1500 | H051507-700 | L |
| | (3) Connection clamp Ø 195 (price/piece) | | |
|  | firematic 20-501, BioFire 500-1500 | H051507-800 | L |
| | Supporting foot for discharge screw (every 2 m) | | |
| | Attention: When transferring "transport screw to transport screw" there is a supporting foot directly at the transfer necessary! | | |
| | firematic 20-301 | A066009-295 | L |
|  | firematic 349-501, BioFire 500-1500 | A066009-290 | L |
| | Control box discharge and transport systems | | |
| | Control box discharge system for 2 motors for 1 discharge screw (AS1) + 1 discharge screw (AS2) + 1 level control with light sensor | X000100-111 | L |
| | Control box discharge system for 3 motors for 2 discharge screws (AS1) + 1 agitator (RW) + 1 level control with light sensor | X000100-112 | L |
|  | Surcharge for stronger drive motor: | | |
| | – from 6 m transport screw length – from 2,5 m climbing screw length | X000107-000 | L |


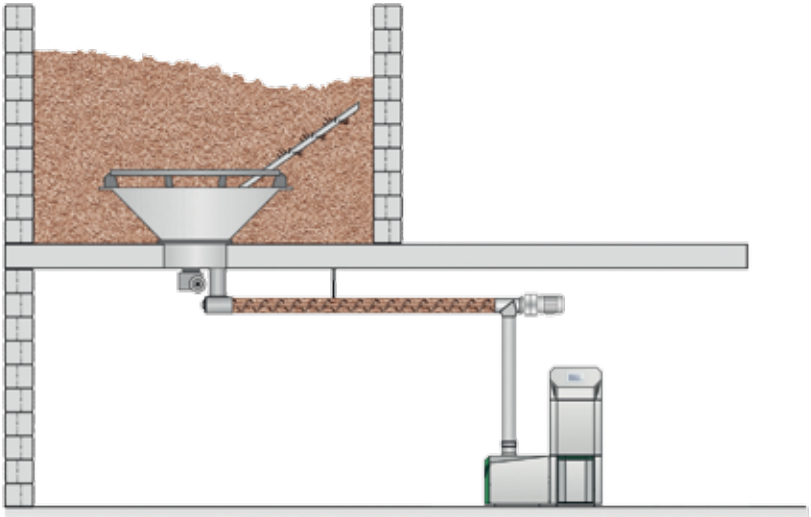
Chute pipe systems

firematic / BioFire

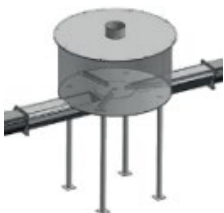
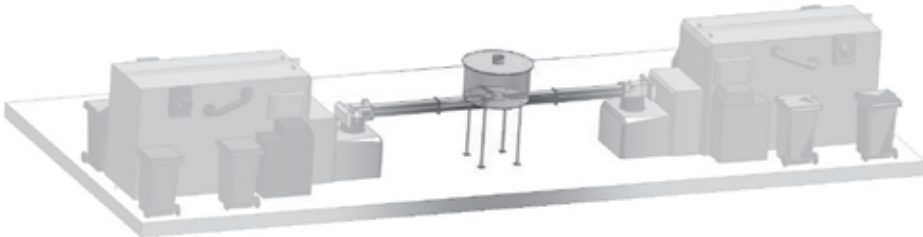
| Accessories | Art. No. | € | G |
|---|---|-------------|-------------------|
| <p>WOOD CHIPS up to P31S & WOOD PELLETS</p> <p>firematic 20-501 BioFire 500-1500</p> <p>to combine with modular agitator system, agitator systems with separate drive and continuous screw and rigid pellets screw</p> |  | | |
|  | (1) Connection piece for the agitator system to a chute pipe | | |
| | firematic 20-501 | A082004-122 | L |
| | BioFire 500-1500 | A066004-090 | L |
| | (1) Connection piece for the discharge system rigid pellets screw to a chute pipe | | |
| | firematic 20-201, firematic 120-201 PELLET | A082004-122 | L |
| | firematic 249-501, BioFire 500-1500 | A066004-090 | L |
|  | (2) Chute pipe Ø 195 (per metre) | | |
| | firematic 20-501, BioFire 500-1500 | H051507-700 | L |
| | (3a, 3b) Connection piece | | |
| | (3a, 3b) firematic 20-501 (Ø 195) | H031208-755 | L |
| | (3a) BioFire 500-1500 (Ø 195) | H031208-755 | L |
| | (3b) BioFire 500-1500 (Ø 195) | H050508-155 | L |
|  | (3c) if necessary - longer connection piece for floor breakthrough | | |
| | (3c) firematic 20-501 (Ø 195) | H031208-770 | L |
| | (3c) BioFire 500-1500 (Ø 195) | | |
| | (4) Connection clamps for chute pipe (price/piece) | | |
| | Connection clamps Ø 195 chute pipes for chute system for firematic 120-201 PELLET, firematic 20-501 and BioFire 500-1500 Price per metre | | |
| | | H051507-800 | L |
|  | Y-piece (collecting pipe) | | |
| | | | Price on request! |

Pendular screw

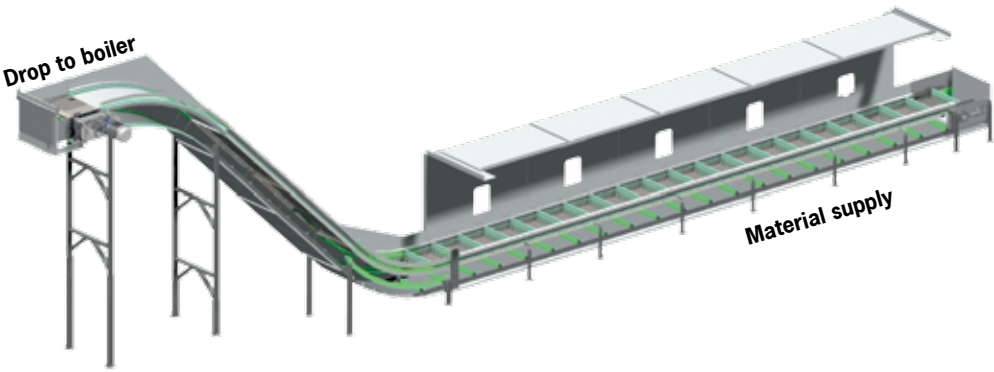
firematic / BioFire

| Accessories | Art. No. | € | G |
|--|--|-------------------|---|
| <p>WOOD CHIPS up to P31S & WOOD PELLETS</p> <p>firematic 20-501 BioFire 500-1500</p> <p>Round silo discharge system (3 phase, 400 Volt)</p>  |  | | |
| <p>Pendular screw system for round silo consisting of: Pendular screw, base ring, distributor piece, extraction chute with cardan joint</p> | | Price on request! | |

Distribution hopper

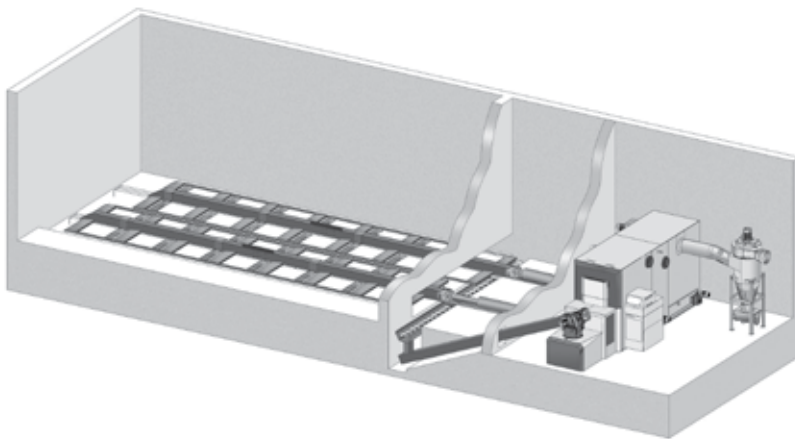
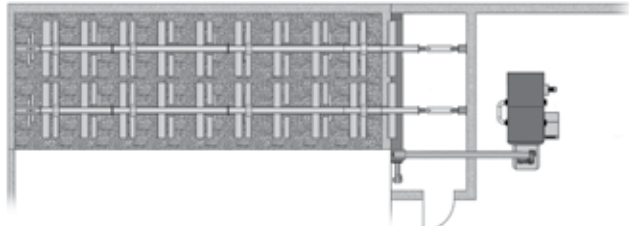
| | | | |
|--|--|-------------------|--|
| <p>WOOD CHIPS up to P31S & WOOD PELLETS</p> <p>firematic 20-501 BioFire 500-1500</p> <p>Distribution hopper (3 phase, 400 Volt)</p>  |  | | |
| <p>Distribution hopper incl. level sensors</p> | | Price on request! | |

Chain conveyors

| | | | |
|--|--|-------------------|--|
| <p>WOOD CHIPS up to P45S + M50 & WOOD PELLETS</p> <p>BioFire 500-1500 BioFire 500-1500 (P45S) BioFire 500-1500 (P45S + M50)</p> |  | | |
| <p>Chain conveyor</p> | | Price on request! | |

Hydraulic walking floor discharge

firematic / BioFire

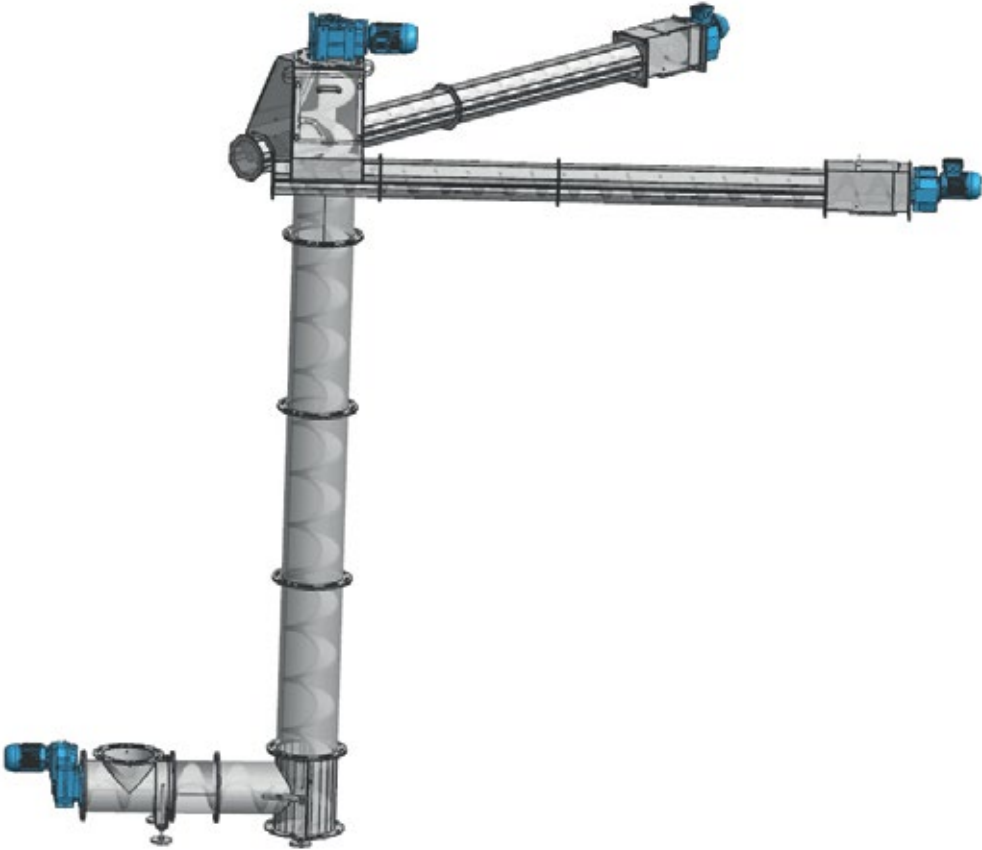
| Accessories | Art. No. | € | G |
|---|---|---|--|
| <p>WOOD CHIPS up to P45S + M50 & WOOD PELLETS</p> <p>firematic 20-501 BioFire 500-1500 BioFire 500-1500 (P45S) BioFire 500-1500 (P45S + M50)</p> <p>Hydraulic walking floor (3 phase, 400 Volt)</p> |   | | <p>Illustration: 1 BioFire with 2-row hydraulic walking floor, 1 transversal screw and 1 climbing screw</p> <p>Price on request!</p> |

Hydraulic walking floor discharge

Price on request!

Vertical filling system

firematic / BioFire

| Accessories | Art. No. | € | G |
|--|---|---|---|
| <p>WOOD CHIPS up to P45S + M50 & WOOD PELLETS</p> <p>firematic 20-501 BioFire 500-1500 BioFire 500-1500 (P45S) BioFire 500-1500 (P45S + M50)</p> | <div>  </div> <p>Price on request!</p> | | |

2

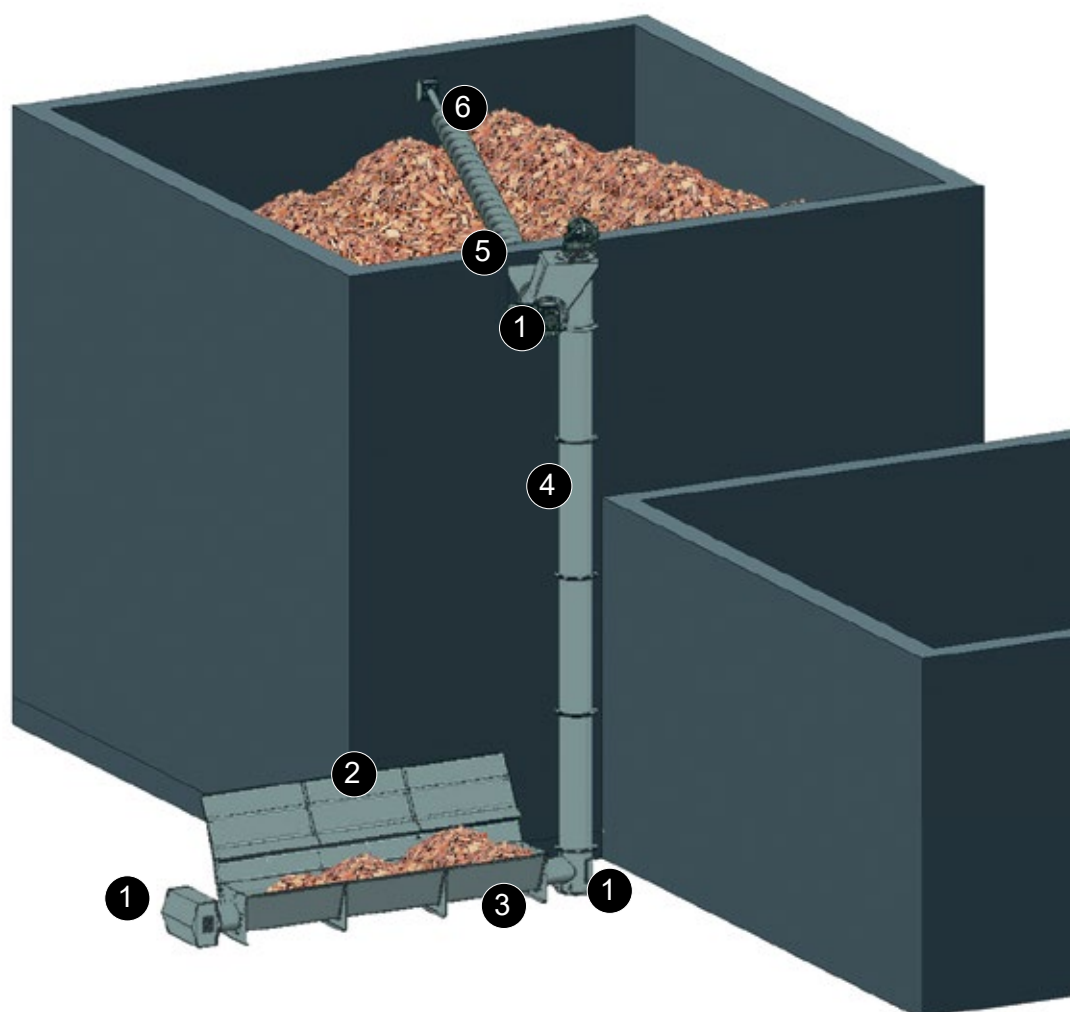
STORAGE ROOM FILLING SYSTEM

Vertical filling system

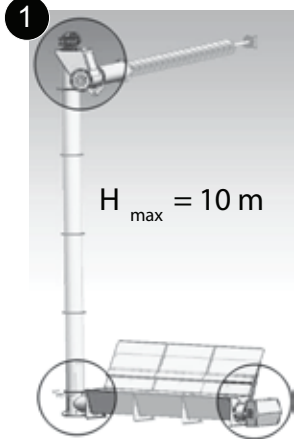
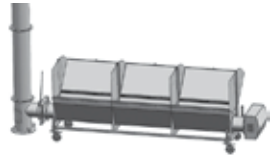

The vertical filling system of HERZ offers the opportunity to fill the storage room optimally.

Wood chips and pellets are transported via a vertical screw into the storage room and are distributed optimally via a horizontal screw in the storage room.

Illustration: Version left




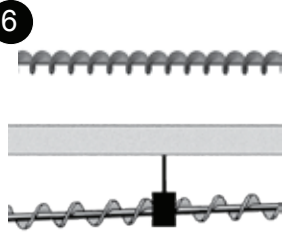

Storage room filling system

| Accessories | | Art. No. | € | G |
|---|--|---|-------------|---|
| <p>WOOD CHIPS up to P455 according to EN ISO 17225-4 & WOOD PELLETS according to EN ISO 17225-2 (3 phase, 400 Volt)</p>  | | <p>Basic set vertical filling system:</p> <ul style="list-style-type: none"> - 2x motor 4,0 kW - 1x motor 5,5 kW - Weather resistant case for the motor - Connection to the trough - Coreless screw horizontal Ø 260 mm, L = 0,25m - Transfer between trough and vertical screw - Transfer between vertical screw and storage room - Coreless screw vertical Ø 300mm - Mounting items and small items - Maintenance flap & crane hooks - Bearing for storage room screw <p>H = Basic height from bottom up to the middle of the screw 675 mm</p> | | |
| | | Version open filling right side | F033001-200 | L |
| | | Version open filling left side | F033001-201 | L |
| | | <p>OPTION: Basic set vertical filling system (as above), but as fire protection version ATEX (1x motor 4,0 kW, 1x motor 4,0 kW ATEX, 1x motor 5,5 kW ATEX)</p> | | |
| | | Version open filling right side ATEX | F033001-210 | L |
| | | Version open filling left side ATEX | F033001-211 | L |
|  | | <p>surcharge for trough with wheels (movable and detachable) (only for a single trough possible, for a double trough not possible)</p> | F033001-202 | L |
|  | | Control box filling screw incl. key switch and motortimer for | | |
| | | 3 motors (2 x 4 kW & 1 x 5,5 kW) | X100105-120 | L |
| | | 6 motors (4 x 4 kW & 2 x 5,5 kW) | X000105-151 | L |

Storage room filling system

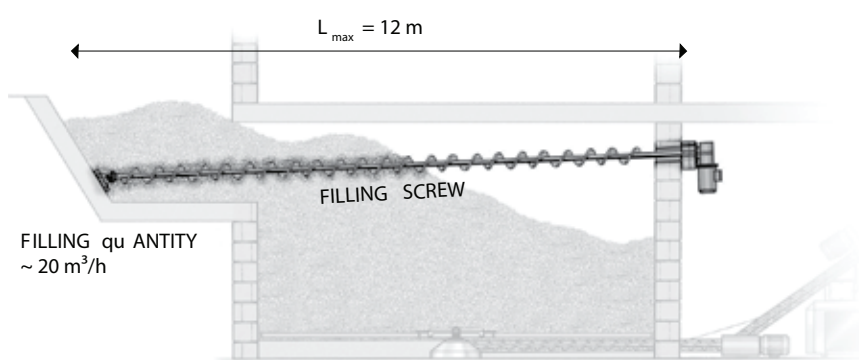





| Accessories | | Art. No. | € | G |
|--|--|-------------|---|---|
| 2  | Extension trough consisting of: – Trough in galvanised version – Coreless screw Ø 260 mm – Mounting items and small items | | | |
| | 0.6 m version right side | F033001-060 | | L |
| | 1.2 m version right side | F033001-120 | | L |
| | 0,6 m version left side | F033001-061 | | L |
| | 1,2 m version left side | F033001-121 | | L |
| | L max (Pos. 2) + (Pos.3) = 6 m! | | | |
| 2  | Double trough consisting of: – Trough in galvanised version – Coreless screw Ø 260 mm – Mounting items and small items | | | |
| | 0.6 m version right side | F033001-260 | | L |
| | 1,2 m version right side | F033001-220 | | L |
| | 0,6 m version left side | F033001-261 | | L |
| | 1,2 m version left side | F033001-221 | | L |
| | L max (Pos. 2) + (Pos.3) = 6 m! | | | |
| 3  | Extension pipe for trough consisting of: – Pipe Ø 297 mm & flange galvanised – Coreless screw Ø 260 mm | | | |
| | Version right side | | | |
| | Length L = 0,5 m | F033001-050 | | L |
| | Length L = 1,0 m | F033001-100 | | L |
| | Length L = 1,5 m | F033001-150 | | L |
| | Version left side | | | |
| | Length L = 0,5 m | F033001-051 | | L |
| | Length L = 1,0 m | F033001-101 | | L |
| | Length L = 1,5 m | F033001-151 | | L |
| | L max (Pos. 2) + (Pos.3) = 6 m ! | | | |
| 4  | Extension vertical pipe consisting of: – Pipe Ø 347 mm & flange galvanised – Coreless screw Ø 300 mm | | | |
| | Length L = 0,5 m | F033002-050 | | L |
| | Length L = 1,0 m | F033002-100 | | L |
| | Length L = 1,5 m | F033002-150 | | L |
| | H _{max} = 10 m | | | |

Storage room filling system


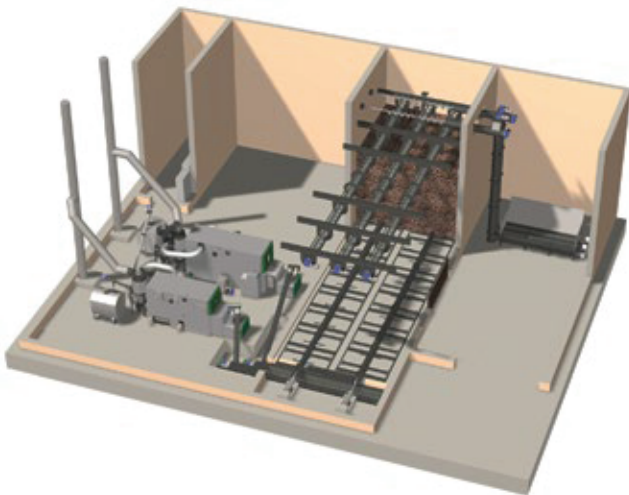
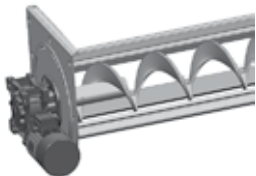


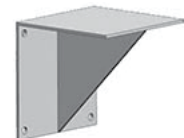


| Accessories | | Art. No. | € | G |
|--|--|--------------|---|---|
|  | Extension pipe in the storage room consisting of: – Pipe Ø 347 mm & flange galvanised – Screw Ø 300 mm | | | |
| | Length L = 0,5 m | F033003-050 | | L |
| | Length L = 1,0 m | F033003-100 | | L |
| | Length L = 1,5 m | F033003-150 | | L |
|  | Filling screw storage room: – Screw Ø 300 mm | | | |
| | price per metre | F033003-200 | | L |
| | $L_{max} = 12\text{ m}$ | | | |
| Intermediate bearing (from 5 m open screw length of the filling screw) | | | | |
| | | H060257-510 | | L |
|  | Assembly vertical filling system (valid in combination with boiler assembly) Price without crane and tools, these will be charged separately if required! (net, without discount) | | | |
| | in Austria | X000100-461A | * | - |
| * Assembly and comissioning prices are available in the „HERZ Service Folder“. | | | | |

3









Storage room filling system

| Accessories | | Art. No. | € | G |
|---|--|---|---|---|
| <p>Filling screw</p> <p>WOOD CHIPS up to P31S according to EN ISO 17225-4 & WOOD PELLETS according to EN ISO 17225-2</p> <p>(3 phase, 400 Volt)</p> | |  | | |
|  | | <p>Basic set filling screw without control box consisting of:</p> <ul style="list-style-type: none"> – Drive motor – Flange, console, bearing – Drive motor mounting <p>Drive motor 3 kW (length < 6 m) X000105-000 L</p> <p>Drive motor 3 kW (length < 6 m) IP55 version (explosion-protected) X000105-500 L</p> <p>Drive motor 5,5 kW (length < 6 m) X000105-010 L</p> <p>Drive motor 5,5 kW (length < 6 m) IP55 version (explosion-protected) X000105-550 L</p> | | |
|  | | <p>Filling screw 230 mm outer diameter, welded on 6/4" seamless pipe (per metre) H051507-500 L</p> | | |
|  | | <p>Intermediate bearing (from 5 m length of the filling screw) H060257-510 L</p> | | |
|  | | <p>Control box filling screw incl. key switch</p> <p>for 3 kW motors</p> <p>1 motor X100105-100 L</p> <p>2 motors X100105-110 L</p> <p>3 motors X100105-125 L</p> <p>for 5,5 kW motor</p> <p>1 motor X100105-105 L</p> <p>2 motors X100105-115 L</p> <p>3 motors X100105-122 L</p> <p>4 motors X100105-130 L</p> <p>5 motors X100105-145 L</p> <p>6 motors X100105-150 L</p> | | |
|  | | <p>Assembly filling screw (Price per screw and in combination with boiler assembly) (net, without discount)</p> <p>in Austria X000100-460A * -</p> <p>* Assembly and comissioning prices are available in the „HERZ Service Folder“.</p> | | |




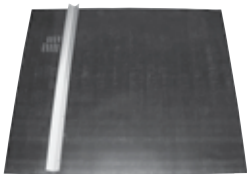

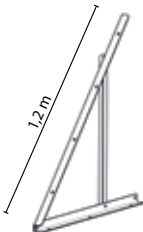



Storage room filling system

| Accessories | | Art. No. | € | G |
|---|--|--|---------------------|---|
| <div>Distributor screw Delivery rate approx. 60 m³/h</div> <div>WOOD CHIPS up to P45S according to EN ISO 17225-4 & WOOD PELLETS according to EN ISO 17225-2</div> <div>(3 phase, 400 Volt)</div> |  |  | | |
|  | Basic set ceiling distributor screw incl. motor 5,5 kW <ul style="list-style-type: none">– Stub for screw spiral– Motor stub– Endplate of the trough– End switch with capacity sensor– Incidentals | | F041001-000 | L |
|  | Screw Ø 300 mm with basket, length =1 metre | | F041001-010 | L |
| | Screw Ø 300 mm with basket, length = 2 metres | | F041001-020 | L |
| NOTE: max. length 12 metres | | | | |
|  | IF NECESSARY | | | |
| | I-beam suspension for basket mounting | | Details on request! | |
|  | Suspension bracket for I-beam | | Details on request! | |
| | | | | |
|  | Control box filling screw incl. key switch | | | |
| | for 5,5 kW motor | | | |
| | 1 motor | X100105-105 | L | |
| | 2 motors | X100105-115 | L | |
| | 3 motors | X100105-122 | L | |
| | 4 motors | X100105-130 | L | |
| | 5 motors | X100105-145 | L | |
| 6 motors | X100105-150 | L | | |
|  | Assembly filling screw (Price per screw and in combination with boiler assembly) (net, without discount) | | | |
| | in Austria | X000100-460A | * | - |
| * Assembly and comissioning prices are available in the „HERZ Service Folder“. | | | | |

Storage room

| Accessories | | Art. No. | € | G |
|---|---|---|---|-----------------------|
|  | Silencer set for room discharge systems agitator and wall duct | A020007-300 | | Z |
|  | ATTENTION: Silencer set for wall breakthrough does not act as fire protection! | | | |
|  | Temperature controlling set for storage room (TÜB) for flexible screw discharge or suction systems | PE40156-004 | | Z |
|  | Straight pellets coupling, storz system A 110 (at least 1 blow in support and 1 suction support required in the storage room), L = 0,5 m | P110457-600 | | Z |
|  | 45-degree pellets coupling system, storz system A 110 (at least 1 blow in support and 1 suction support required) L = 0,5 m | P110457-645 | | Z |
|  | Bow for pellets filling system including clamping ring DN100 (R=radius, D=diameter) 15° R=1D 30° R=1D 45° R=1D 60° R=2D 90° R=2D | P070100-015 P070100-030 P070100-045 P070100-060 P070100-090 | | Z Z Z Z Z |
|  | Pipe for pellets filling system including clamping ring DN100 length: 0,05 m 0,2 m 0,5 m 1,0 m 2,0 m | P070100-005 P070100-020 P070100-050 P070100-100 P070100-200 | | Z Z Z Z Z |
|  | Variable extension pipe for pellets filling system (insertable pipe) incl. clamping ring DN100 5-45 cm | P110457-605 | | Z |

Storage room

| Accessories | | Art. No. | € | G |
|---|---|---|---|-------------|
|  | Straight wood chip coupling, Storz system A 150 (at least 1 blow in support and 1 suction support required in the storage room), L = 0,5 m | P110000-150 | | L |
|  | Bow for wood chip filling system including clamping ring DN150 (R=radius, D=diameter) 45° R=2D | P070150-045 | | L |
|  | Pipe for wood chip coupling set including clamping ring DN150 length: 0,5 m 1,0 m 2,0 m | P070150-050 P070150-100 P070150-200 | | L L L |
|  | Pellets impact mat Width x height = 1,0 x 1,2 m | P150157-600 | | Z |
|  | Storage room door pressure release set, z-profiles, (2 pieces) L = je 1,05 m | P150157-601 | | Z |
|  | Installation profile for slide angle for 35° oder 45° assembly | P150159-201 | | Z |
|  | Transport tube or chute pipe (per metre) | 5020760-000 | | L |
|  | Flexible screw (per metre) | 5016102-160 | | L |
|  | Pellets-house box including 230 Volt socket and door switch (sends burner stop signal) for single or double boiler | P110255-105 | | Z |

HERZ 3-D planning tool

...in 15 minutes from the idea to the submission design, offer and 3D views

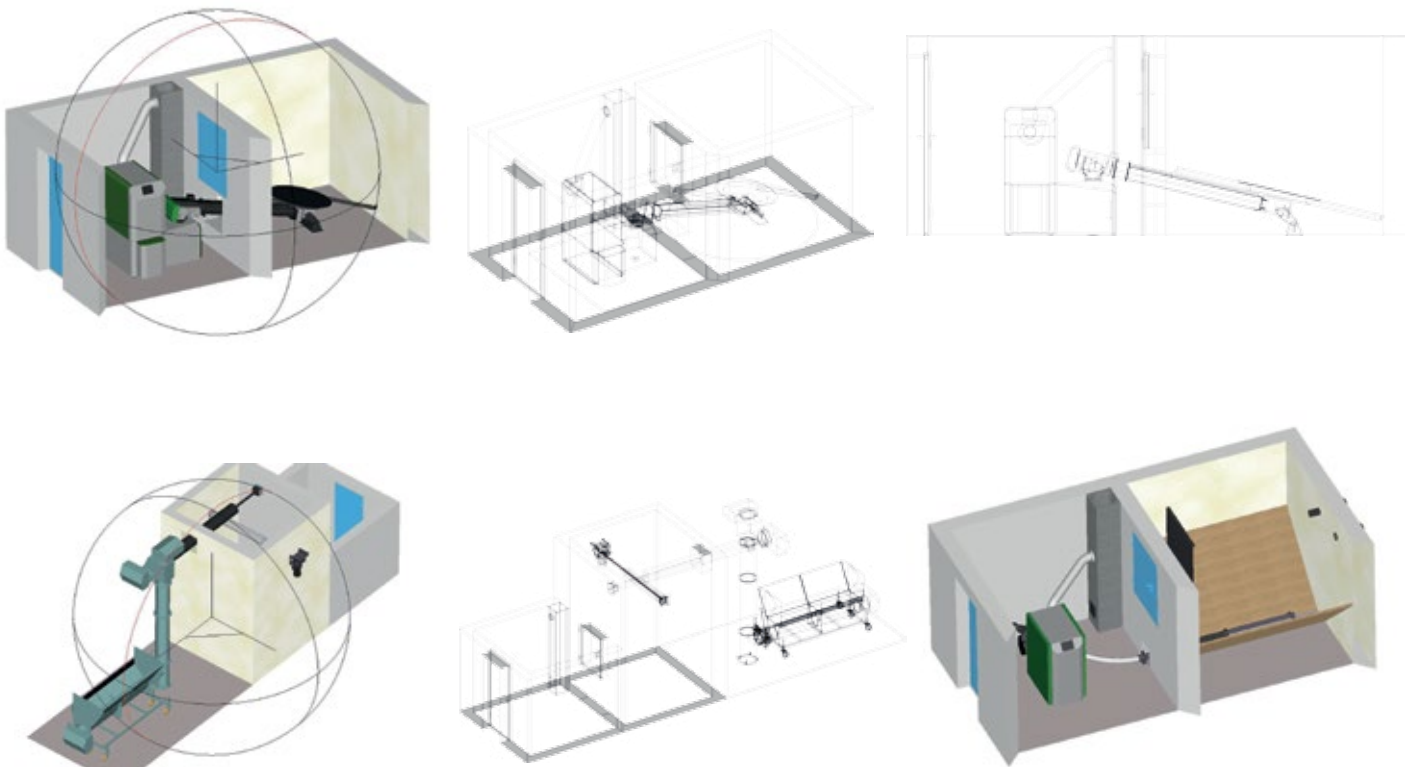
The intelligent 3D design software for HERZ biomass systems allows a professional, fast and easy creation of heating systems including object list offer and submitted plan for sales representative or heating engineers.

We set a high value on the professionalism of our partners



The software simplifies the designing effort considerably, gives you professional planning results and represents your results to the customers, generates accurate lists of planning. As well as time savings, safety and professional appearance to customers and partners.

Print 2D and 3D wave or color views

During the design work, it allows anytime a control via 3D view in color or a line drawing to be control your work.









HERZ 3-D planning tool

| Accessories | | Art. No. | € | G | | | | | | | | | | | | | | | | | | |
|--|--|-------------|---|---|------------------------|--|---------------|---|--------------|-----------------------|----------------------------|--------------|---------------|--|---------------------------------|--|--------|---|------------------|----------------|--------|---|
|  | License fee for the HERZ 3-D planning software once (NON-RECURRING FEE) (net, without discount) | GC00000-010 | | - | | | | | | | | | | | | | | | | | | |
|  | Annual maintenance amount for the HERZ 3-D planning software (EACH YEAR) (net, without discount) | GC00000-100 | | - | | | | | | | | | | | | | | | | | | |
| <div>Available languages: German English</div> <div>In connection with the purchase of the software we offer basic and expert trainings. If possible, bring your notebook for the course with the preinstalled software.</div> <div><div>BASIC TRAINING</div><div>In a daily training we teach the menu structure and basic settings of the 3D-Planning software. Furthermore you learn the planning processes of the software on small biomass plants and create various plans.</div></div> <div><div>EXPERT TRAINING</div><div>After completion of the basic training we teach how you design specific biomass plants, such as large systems with special auger systems and screw discharge. In addition, individual questions of the training participants will be jointly worked out and explained in detail.</div></div> <div>System requirements for this version (single user)</div> <table><tr><td colspan="2">Hardware requirements:</td></tr><tr><td>CPU/processor</td><td><div><div>– Intel i3* or more powerful from 2.0 GHz</div><div>– AMD* from 2.0 GHz</div></div></td></tr><tr><td>Main storage</td><td>Windows 10* from 4 GB</td></tr><tr><td>Free storage on hard drive</td><td>minimum 4 GB</td></tr><tr><td>Graphic board</td><td><div><div>– with ATI* Chip from Radeon 9 series or</div><div>– with Nvidia* Chip from GeForce 5 series</div><div>– with minimum 256 MB dedicated storage recommended</div><div>– with OpenGL support</div></div></td></tr><tr><td>Graphic board/screen resolution</td><td>from 1280 x 960, recommended 1600 x 1024 or higher</td></tr><tr><td>Others</td><td>Mouse with scroll wheel for zoom function</td></tr></table> <div><div>Software requirements:</div><table><tr><td>Operating system</td><td>MS Windows 10*</td></tr><tr><td>Others</td><td><div><div>– Internet access</div><div>– NET Framework from 4.5 (contained in setup)</div></div></td></tr></table></div> | | | | | Hardware requirements: | | CPU/processor | <div><div>– Intel i3* or more powerful from 2.0 GHz</div><div>– AMD* from 2.0 GHz</div></div> | Main storage | Windows 10* from 4 GB | Free storage on hard drive | minimum 4 GB | Graphic board | <div><div>– with ATI* Chip from Radeon 9 series or</div><div>– with Nvidia* Chip from GeForce 5 series</div><div>– with minimum 256 MB dedicated storage recommended</div><div>– with OpenGL support</div></div> | Graphic board/screen resolution | from 1280 x 960, recommended 1600 x 1024 or higher | Others | Mouse with scroll wheel for zoom function | Operating system | MS Windows 10* | Others | <div><div>– Internet access</div><div>– NET Framework from 4.5 (contained in setup)</div></div> |
| Hardware requirements: | | | | | | | | | | | | | | | | | | | | | | |
| CPU/processor | <div><div>– Intel i3* or more powerful from 2.0 GHz</div><div>– AMD* from 2.0 GHz</div></div> | | | | | | | | | | | | | | | | | | | | | |
| Main storage | Windows 10* from 4 GB | | | | | | | | | | | | | | | | | | | | | |
| Free storage on hard drive | minimum 4 GB | | | | | | | | | | | | | | | | | | | | | |
| Graphic board | <div><div>– with ATI* Chip from Radeon 9 series or</div><div>– with Nvidia* Chip from GeForce 5 series</div><div>– with minimum 256 MB dedicated storage recommended</div><div>– with OpenGL support</div></div> | | | | | | | | | | | | | | | | | | | | | |
| Graphic board/screen resolution | from 1280 x 960, recommended 1600 x 1024 or higher | | | | | | | | | | | | | | | | | | | | | |
| Others | Mouse with scroll wheel for zoom function | | | | | | | | | | | | | | | | | | | | | |
| Operating system | MS Windows 10* | | | | | | | | | | | | | | | | | | | | | |
| Others | <div><div>– Internet access</div><div>– NET Framework from 4.5 (contained in setup)</div></div> | | | | | | | | | | | | | | | | | | | | | |




WOOD CHIPS & PELLETS

firematic & BioFire

| Accessories | | Art. No. | € | G |
|---|--|----------|---|---|
| Accessories T-Control | | | | |
|  | <p>Extension modules for T-Control: With the extension modules it is possible to realise several possibilities (due to customers request and existing hydraulic system) and build up a complete heating control system. The following extension modules are possible:</p> <p>firematic 20-101: 2 internal and 30 external modules firematic 120-201: 4 internal and 30 external modules firematic 249-501: 2 internal and 30 external modules BioFire: 4 internal and 30 external modules</p> <p>Internal module: BUS-cable included (from factory) External modules: BUS-cable to heat generators and to connect the individual external modules is not included!</p> | | | |
| | | | | |
|  | <p>Extension module „heating circuit“ for T-Control (outside temperature regulation control incl. sensor set)</p> <p>INTERNAL 2 PT1000 sensor inputs: flow and back flow 1 room sensor input: for remote control FBR 1 3 relay outputs 230 VAC: pump and mixer P020300-335 Z</p> <p>EXTERNAL (in wall-mounted box) 3 sensor inputs PT1000: flow and back flow, outside temperature 1 room sensor input: for remote control FBR 1 3 relay outputs 230 VAC: pump and mixer P020300-450 Z</p> | | | |
| | | | | |
|  | <p>Outside temperature sensor (PT1000) in a casing for controller T-Control for regulation due to the outside temperature (heating curve). For each external „heating circuit“ module one outside temperature sensor is possible. 4057001-010 Z</p> | | | |
|  | <p>Extension module „solar circuit“ for T-Control (according to the scheme based on the HERZ guidelines, incl. sensor set)</p> <p>INTERNAL 4 PT 1000 sensor inputs: flow and back flow, tank 1 + 2 1 speed-controlled pump output 230 VAC (this output is not usable for HE-pumps) 2 relay outputs 230 VAC: pump or mixer / changeover valve P020300-350 Z</p> <p>EXTERNAL (in wall-mounted box) 4 PT1000 sensor inputs: flow and back flow, tank 1 + 2 1 speed-controlled pump output 230 VAC (this output is not usable for HE-pumps) 3 relay outputs 230 VAC: pump or mixer / changeover valve P020300-400 Z</p> <p>EXTERNAL (in wall-mounted box) 4 PT1000 sensor inputs: flow and back flow, tank 1 + 2 1 pulse width modulation output for speed controlled pump 3 relay outputs 230 VAC: pump or mixer / changeover valve P020300-401 Z</p> | | | |
| | | | | |
| | | | | |
|  | <p>Extension module „buffer“ for T-Control (incl. sensor set)</p> <p>INTERNAL 3 PT1000 sensor inputs: buffer top middle, bottom 3 relay outputs 230 VAC: pump or mixer / changeover valve P020300-340 Z</p> <p>EXTERNAL (in wall-mounted box) 4 PT1000 sensor inputs: buffer top middle, bottom, outside temperature 3 relay outputs 230 VAC: pump and mixer / changeover valve P020300-500 Z</p> | | | |
| | | | | |
|  | <p>Extension module „hot water tank“ for T-Control (incl. sensor set)</p> <p>INTERNAL 2 PT1000 sensor inputs: boiler and circulation 2 relay outputs 230 VAC: boiler pump and circulation pump P020300-345 Z</p> <p>EXTERNAL (in wall-mounted box) 2 PT1000 sensor inputs: boiler and circulation 2 relay outputs 230 VAC: boiler pump and circulation pump P020300-550 Z</p> | | | |
| | | | | |

WOOD CHIPS & PELLETS

firematic & BioFire

| Accessories | | Art. No. | € | G |
|---|--|----------------------------|---|--------|
| Accessories T-Control | | | | |
|  | <p>Extension module „external requirement“ for T-Control (incl. sensor package)</p> <p>EXTERNAL (in wall-mounted box) Requirement via analog input 4-20 mA and digital input</p> | P020300-660 | | Z |
|  | <p>INTERNAL extension module „net pump“ , „hydraulic compensator (shunt)“ or „zone valve“ for T-Control (incl. sensor set)</p> <p>„Net pump“ 1 PT1000 sensor input: net pump temperature 3 relay outputs 230 VAC: net pump and mixer</p> <p>„Hydraulic compensator (shunt)“ 1 PT1000 sensor input: hydraulic compensator temperature (shunt) 2 relay outputs 230 VAC: pump 1 / changeover valve + pump 2</p> <p>„Zone valve control“ 1 relay output 230 VAC: zone valve</p> | P020300-355 | | Z |
|  | <p>EXTERNAL extension module „net pump“ , „hydraulic compensator (shunt)“ or „zone valve“ for T-Control (in wall-mounted box, incl. sensor set)</p> <p>„Net pump“ 1 PT1000 sensor input: net pump temperature 3 relay outputs 230 VAC: net pump and mixer</p> <p>„Hydraulic compensator (shunt)“ 1 PT1000 sensor input: hydraulic compensator temperature (shunt) 2 relay outputs 230 VAC: pump 1 / changeover valve + pump 2</p> <p>„Zone valve control“ 1 relay output 230 VAC: zone valve</p> | P020300-650 | | Z |
|  | <p>EXTERNAL „ pump extension module PWM or 0-10 Volt“ (in wall-mounted box) For speed controlling of the back flow pump for boilers with T-Control or for speed control of the pump of the additional boiler (schemes WE6 and WE8 regarding to regulation QM Heizwerke).</p> | P020300-668 | | Z |
|  | <p>Cascade connection for T-Control (terminal & activation) <u>per boiler</u> Necessary for each boiler in the cascade! Up to 8 boilers in cascade are possible. (according to the scheme based on the HERZ guidelines)</p> <p>for new boilers</p> <p>for a existing boiler (retrofit)</p> | 7070000-300 7070000-250 | | Z Z |
|  | <p>Ethernet Switch (8 ports) for cascade connection of the boiler From a cascade of 3 boilers the switch is required. The ethernet - cabling (CAT 5 cable or higher, not included in delivery) has to be done on site ! (according to the scheme based on the HERZ guidelines)</p> | 7070000-301 | | Z |

4





WOOD CHIPS & PELLETS

firematic & BioFire

| Accessories | | Art. No. | € | G |
|---|--|---------------------------------------|---|-------------------|
| Accessories T-Control | | | | |
|  | <p>Extension module „automatic switch for second/additional boiler“ for T-Control (according to the scheme based on the HERZ guidelines, incl. sensor set)</p> <p>EXTERNAL (in wall-mounted box) 2 PT1000 sensor inputs: exhaust temperature and boiler temperature of the additional boiler 1 relay output 230 VAC: boiler pump of the additional boiler 1 relay output potential free: for burner request additional boiler</p> | P020300-600 | | Z |
|  | <p>Extension module „automatic switch for additional boiler for buffer bypassing“ for T-Control (according to the scheme based on the HERZ guidelines, incl. sensor set)</p> <p>EXTERNAL (in wall-mounted box) 3 PT1000 sensor inputs: exhaust temperature, boiler temperature of the additional boiler and hydraulic compensator temperature 2 relay outputs 230 VAC: boiler pump of the additional boiler, switching valve 1 relay output potential free: for burner request additional boiler</p> | P020301-650 | | Z |
|  | <p>External module „external Info-Alarm“ for T-Control (in wall-mounted box)</p> <p>11 inputs: 8 digital (+24 VDC), 3 analog (2x 4-20 mA, 1x 0-10 V) 8 outputs: 4x 230 VAC relay outputs, 4x 24 VDC</p> | P020300-675 | | Z |
|  | <p>Flue gas temperature guard for locking the boiler (sends “Burner-Stop” if the second boiler produces heat)</p> | 5010130-288 | | Z |
|  | <p>Surcharge remote visualisation for T-Control via smartphone, PC or tablet The handling is the same as in the Touch-Control directly on the boiler. The processes and parameters can be read and modified any time from anywhere. Note: The network connection has to be done by an external IT provider or IT companies and a fixed IP address is required. A declaration of consent has to be signed by the user/operator or owner of the heating system.</p> | X000100-750 | | Z |
|  | <p>i - FBR digital room unit, visualise, operate and observe 3,5" TFT colour display, CAN-communication, internal temperature and humidity sensor Note: Compatible with boiler with T-Control 7" display</p> | | | |
| | <p>24 V (HZS 352)</p> <p>230 V (HZS 351)</p> | <p>5120300-327</p> <p>5120300-326</p> | | <p>G</p> <p>G</p> |
|  | <p>Remote control, FBR 1 including room sensor for outside temperature regulation control (for T-Control)</p> | 4056010-001 | | Z |

WOOD CHIPS & PELLETS

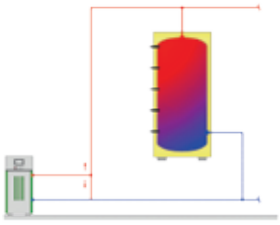
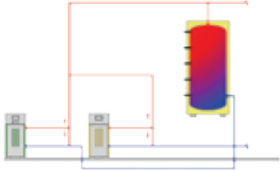
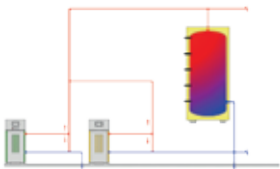
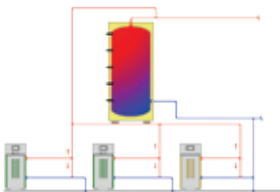
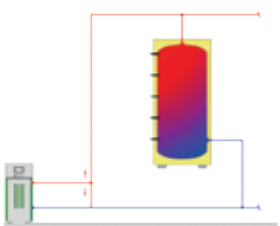
firematic & BioFire

| Accessories | | Art. No. | € | G |
|---|--|--------------|---|---|
|  | Telephone breakdown reporting device (landline connection) which conveys pre-recorded text or spoken message | 3301301-000 | | Z |
|  | GSM phone fault reporting device (2 inputs, 2 outputs) Reports SMS message, including power supply 230 V and the module for uninterruptable power supply with battery, waterproof housing for outdoor installation IP68, up to 5 mobile phones can be saved (SIM card not included in the price) Necessary SIM-card size: Nano-SIM | 3301302-001 | | Z |
| | OPTIONAL: if mobile reception is bad, Antenna for GSM fault reporting device | 3301302-005 | | Z |
|  | Commissioning for telephone breakdown (landline connection or mobile phone) (only applies in combination with system commissioning) (net, without discount) in Austria | X000100-900A | * | - |
|  | Commissioning charge per extension module T-Control (heating circuit, hot water tank, buffer, solar, external requirement, netpump) (only applies in combination with system commissioning) (net, without discount) in Austria | X000132-000A | * | - |


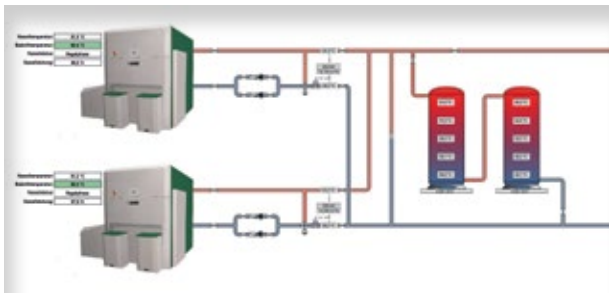
* Assembly and commissioning prices are available in the „HERZ Service Folder“.

4

Control according to QM Heizwerke

| Accessories | Art. No. | € | G |
|--|---|--------------|---|
|     | Control according to QM Heizwerke | | |
| | <p>The functions of the QM Heizwerke-control include:</p> <ul style="list-style-type: none"> – Boiler should be in operation as long as possible – Based on the 5 buffer sensors (optional 10), the charge state is determined (0-100%) and depending on this, the boiler output is specified or limited – Speed-controlling of the back flow pump (PWM or 0-10 Volt) <p>The standard package contains 5 buffer sensors. The expansion set "5 buffer sensor QM Heizwerke" is used to extend a total of 10 sensors.</p> | | |
| | <p>External extension module QM Heizwerke, scheme WE2 Monovalent wood heating system (1 wood boiler) with buffer tank (5 sensors)</p> | P020300-670 | Z |
| | <p>External extension module QM Heizwerke, scheme WE4 Bivalent wood heating system (1 wood boiler & 1 oil-/gas boiler) with buffer tank (5 sensors) + addition boiler module; Additional boiler function according to QM Heizwerke</p> | P020300-671 | Z |
| | <p>External extension module QM Heizwerke, scheme WE6 Monovalent two-boiler wood heating system (2 wood boilers) with buffer tank (5 sensors); Cascade function according to QM Heizwerke</p> | P020300-672* | Z |
|  | <p>External extension module QM Heizwerke, scheme WE8 Bivalent three-boiler-system (2 wood boilers & 1 oil-/gas boiler) with buffer tank (5 sensors); Cascade & additional boiler function according to QM Heizwerke</p> | P020300-673* | Z |
| | <p>*Information: Cascade module has to be ordered separately.</p> | | |
| | <p>Extension set 5 buffer sensors QM Heizwerke (for extension to 10 buffer sensors)</p> | P020300-669 | Z |
| | <p>External pump extension module PWM or 0-10 Volt For speed controlling of the back flow pump for boilers with T-Control or for speed control of the pump of the additional boiler (schemes WE6 and WE8).</p> | P020300-668 | Z |

Visualisation QM Heizwerke

| Accessories | Art. No. | € | G |
|--|----------|---|---|
|  | | | |
|  | | | |

Visualisation via PC

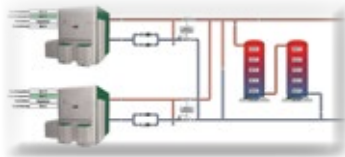
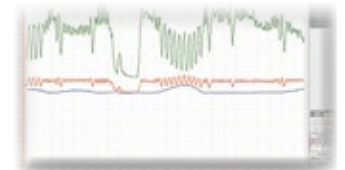
System operation (Human-Machine-Interface) from the control room with control station - visualisation and business-PC:

- Visualisation of the system
- Plant representation and partial views
- a password-protected user level
- Output of error messages - current and as - a list over a longer period of time
- recording of the boiler data such as temperatures, O₂-content, fan speed over one month and representation as a trend line
- inclusive required software licenses







In addition recording and conversion of the boiler-data into QM-Heizwerke-format (minute values as well as the hourly average values) are carried out for supported local heating plants with biomass. All relevant data (e.g. O₂-value, activity of the grate,...) which are displayed by the visualisation of the boiler are recorded.

Extension M-Bus interface for meter reading






Provides the possibility to read up to 2 heat meters (boiler and net) and up to 3 electric meters (boiler, net and E-filter). This is only possible in combination with "Visualisation with PC" (Art.No. X000100-770).

| | | | |
|--|---|-------------|--------------------------------------|
|  | Visualisation via PC (QM-Heizwerke) | X000100-770 | Prices on request! (project work) |
|  | Extension M-Bus interface for meter reading | X000100-771 | Prices on request! (project work) |

PUMPS & DISTRIBUTORS

| Accessories | Art. No. | € | G |
|---|--|-------------|---|
|  | <p>HERZ Pumpfix direct 1" – without pump Connections to the heating circuit: 1" IT; Connections to the distributor: 5/4" ET</p> | 4590100-001 | Z |
|  | <p>HERZ Pumpfix direct 1" incl. WLO Yonos Para 25/6 delivered unassembled HE-pump (high efficient-pump) Connections to the heating circuit: 1" IT; Connections to the distributor: 5/4" ET</p> | 4590100-002 | Z |
|  | <p>HERZ Pumpfix MIX 1" – without pump with Bypass, 3-way motor mixing valve Connections to the heating circuit: 1" IT; Connections to the distributor: 5/4" ET</p> | 4590100-003 | Z |
|  | <p>HERZ Pumpfix MIX 1" incl. WLO Yonos Para 25/6 delivered unassembled HE-pump (high efficient-pump), with bypass, 3-way motor mixing valve Connections to the heating circuit: 1" IT; Connections to the distributor: 5/4" ET</p> | 4590100-004 | Z |
|  | <p>HERZ Pumpfix MIX constant 1" – without pump with bypass and thermal 3-way valve Connections to the heating circuit: 1" IT; Connections to the distributor: 5/4" ET</p> | 4590100-005 | Z |
|  | <p>HERZ Pumpfix MIX constant 1" incl. WLO Yonos Para 25/6 delivered unassembled HE-pump (high efficient-pump) with bypass and thermal 3-way valve Connections to the heating circuit: 1" IT; Connections to the distributor: 5/4" ET</p> | 4590100-006 | Z |

PUMPS & DISTRIBUTORS

| Accessories | | Art. No. | € | G |
|---|--|-------------|---|---|
|  | HERZ Pumpfix manifold (distributor) 2 circuits incl. adjustable wall bracket and insulation manifold outlets to the heating circuits: 2x2x5/4" IT, manifold inlets from the boiler: 2x6/4" ET | 4590100-110 | | Z |
|  | HERZ Pumpfix manifold (distributor) 3 circuits incl. adjustable wall bracket and insulation manifold outlets to the heating circuits: 3x2x5/4" IT, manifold inlets from the boiler: 2x6/4" ET | 4590100-111 | | Z |
|  | HERZ Pumpfix manifold (distributor) 4 circuits incl. adjustable wall bracket and insulation manifold outlets to the heating circuits: 4x2x5/4" IT, manifold inlets from the boiler: 2x6/4" ET | 4590100-112 | | Z |
|  | HERZ Pumpfix manifold (distributor) 5 circuits incl. adjustable wall bracket and insulation manifold outlets to the heating circuits: 5x2x5/4" IT, manifold inlets from the boiler: 2x6/4" ET | 4590100-113 | | Z |
|  | Note: IT = Internal thread, ET = External thread | | | |

DOMESTIC HOT WATER TANK

Domestic hot water tank BWS 300 & 500

glass enamelled, incl. insulation and protection anode



Monovalent drinking water storage with a firmly welded smooth bore heat exchanger for heating and storing drinking water. Tank and heat exchanger made of quality steel. Tank externally rust protected. All surfaces which are in contact with water are protected via a glass enamelling quality certified according to DIN 4753. A magnesium anode is installed to protect against the appearance of corrosion. The domestic hot water tank is equipped with all required connections for cold and hot water, heating flow and back flow, circulation connections, sleeve for screw-in boiler. A review opening (hand hole) is available in all tank devices.

Insulation: fixed in-foamed, hard PU foam insulation (CFC free) 50 mm

Domestic hot water tank with solar heat exchanger BWS-R 300 & 500

glass enamelled, incl. insulation and protection

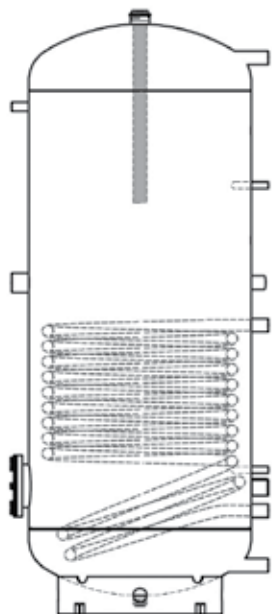


Bivalent drinking water tank with two firmly welded smooth bore heat exchangers for heating and storing drinking water. Tank and heat exchanger made of quality steel. Tank externally rust protected. All surfaces which are in contact with water are protected via a glass enamelling quality certified according to DIN 4753. A magnesium anode is installed to protect against the appearance of corrosion. The hot water tank is equipped with all required connections for cold and hot water, heating flow and back flow, circulation connections, sleeve for screw-in boiler. A review opening (hand hole) is available in all tank devices.

Insulation: fixed in-foamed, hard PU foam insulation (CFC free) 50 mm

Domestic hot water tank

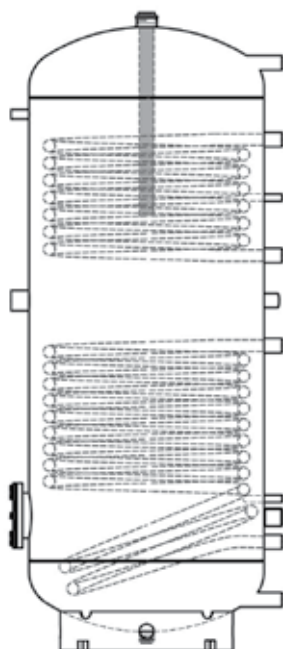
| | | Art. No. | € | G |
|---------|----------------------------|-------------|---------|---|
| BWS 300 | (incl. thermal insulation) | H300300-000 | 1.041,- | H |
| BWS 500 | (incl. thermal insulation) | H300500-000 | 1.414,- | H |



| BWS | Type | 300 | 500 |
|--|---------|----------|----------|
| D Diameter | mm | 650 | 750 |
| H Height incl. insulation | mm | 1.532 | 1.777 |
| Tilt height | mm | 1.670 | 1.930 |
| Weight | kg | 108 | 144 |
| Flange supports | DN | 180 | 180 |
| Steady rate according to DIN 4708 * | | | |
| Heating surface | m² | 1,4 | 1,8 |
| Heating output | kW | 38 | 48 |
| Tapping performance | l/h | 1.092 | 1.381 |
| Heating water | l/h | 1.100 | 1.150 |
| Energy efficiency class | | B | C |
| Standing losses | watt | 70 | 94 |
| Nominal volume | litre | 320 | 518 |
| Vol. of the non-solar thermal store | litre | 132 | 197 |
| Standby losses according to ÖNORM EN 12897 | kWh/24h | 1,68 | 2,26 |

Domestic hot water tank with solar heat exchanger

| | | | | |
|----------|----------------------------|-------------|---------|---|
| BWSR 300 | (incl. thermal insulation) | H420300-000 | 1.127,- | H |
| BWSR 500 | (incl. thermal insulation) | H420500-000 | 1.536,- | H |



| BWS-R | Type | 300 | 500 |
|--|---------|----------|----------|
| D Diameter | mm | 650 | 750 |
| H Height incl. insulation | mm | 1.532 | 1.777 |
| Tilt height | mm | 1.670 | 1.930 |
| Weight | kg | 124 | 160 |
| Flange supports | DN | 180 | 180 |
| Steady rate according to DIN 4708 * | | | |
| Heating surface | m² | 1,0 | 1,2 |
| Heating output | kW | 16 | 33 |
| Tapping performance | l/h | 471 | 942 |
| Heating water | l/h | 1.100 | 1.000 |
| LOWER HEATING SURFACE (solar) | m² | 1,4 | 1,8 |
| Heating output | kW | 38 | 48 |
| Tapping performance | l/h | 1.092 | 1.381 |
| Heating water | l/h | 1.100 | 1.150 |
| Energy efficiency class | | B | C |
| Standing losses | watt | 70 | 94 |
| Nominal volume | litre | 320 | 518 |
| Vol. of the non-solar thermal store | litre | 132 | 197 |
| Standby losses according to ÖNORM EN 12897 | kWh/24h | 1,68 | 2,26 |

*at 80 °C flow, 45 °C domestic hot water temperature and 15 °C cold water temperature

Max. operating pressure solar side: 10 bar, domestic hot water side: 6 bar

BUFFER TANK

Buffer tank PSP 200 - 5000 for heating water, 3 bar

A buffer tank has the task of temporarily storing excessive energy and releasing it to the consumers when required.

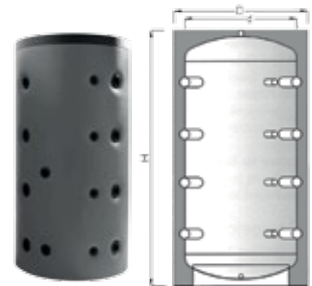
Several buffer tank devices can be connected together to batteries.

The buffer tank devices are suitable for all hot water central heating systems (heating water).

The buffer tank is made of quality steel. The tank is rust-proof primed on the outside.

Heating water connections: 6/4"

Socket for immersion pocket: 1/2"



PSP

Buffer tank PSP-R 200 - 1000 for solar and heating, 3 bar, with welded-in smooth-tube exchanger

A buffer tank has the task of temporarily storing excessive energy and releasing it to the consumers when required.

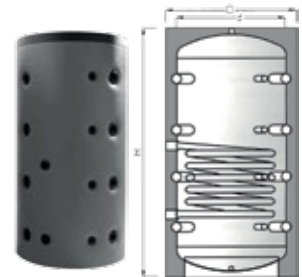
Several buffer tank devices can be connected together to batteries.

The buffer tank devices are suitable for all hot water central heating systems (heating water).

The buffer tank and the heat exchanger (PSP-R) are made of quality steel. The tank is rust-proof primed on the outside. The heat exchanger connections are designed with 1" internal thread.

Heating water connections: 6/4"

Socket for immersion pocket: 1/2"



PSP-R

Insulation

PSP & PSP-R 200 - 500:

Firmly foamed in, PU rigid foam insulation (CFC-free) 50 mm

PSP-R 800 - 1000:

Separately supplied high-quality polyester fleece insulation 100 mm with PVC jacket

PSP 800 - 2000:







Separately supplied high-quality polyester fleece insulation 100 mm with PVC jacket

PSP 2050:





Separately supplied high quality polyester fleece insulation 125mm with PVC jacket

PSP 3000 - 5000

Separately supplied high-quality soft foam insulation 100 mm with PVC jacket

| PSP, PSP-R | | 200 | 300 | 400 | 500 | 800 | 1000 | G |
|--|----------------|---|---|---|---|---|---|---|
| PSP article number | | H400203-000 | H400303-000 | H400403-000 | H400503-000 | H400800-000 | H401000-000 | H |
| PSP price | € | | | | | | | |
| PSP-R article number | | H410203-000 | H410303-000 | H410403-000 | H410503-000 | H400800-100 | H401000-100 | H |
| PSP-R price | € | | | | | | | |
| Thermal insulation article number | | inclusive | inclusive | inclusive | inclusive | H400801-000 | H401001-000 | H |
| Thermal insulation price | € | - | - | - | - | | | |
| Diameter D | mm | 600 | 650 | 750 | 750 | 990 | 990 | |
| Without insulation D | mm | ** | ** | ** | ** | 790 | 790 | |
| Geight H | mm | 1.197 | 1.357 | 1.387 | 1.630 | 1.760 | 2.090 | |
| Tilt height | mm | 1.340 | 1.505 | 1.577 | 1.794 | 1.740 | 2.090 | |
| Weight PSP | kg | 48 | 57 | 69 | 79 | 97 | 114 | |
| Weight PSP-R | kg | 62 | 73 | 94 | 103 | 130 | 156 | |
| Heating surface | m ² | 0,8 | 1,2 | 1,5 | 1,8 | 2,4 | 3,0 | |
| Energy efficiency class | |  |  |  |  |  |  | |
| Standing losses | watt | 61 | 68 | 78 | 92 | 117 | 144 | |
| Nominal volume | litre | 205 | 286 | 405 | 490 | 732 | 925 | |
| Vol. of the non-solar thermal store | litre | 79 | 102 | 156 | 187 | 276 | 340 | |
| Standby losses according to ÖNORM EN 12897 | kWh/24h | 1,46 | 1,63 | 1,87 | 2,21 | 2,81 | 3,46 | |

** fix in-foamed

| PSP | | 1250 | 1500 | 2000 ¹⁾ | 2050 ¹⁾ | 3000 ¹⁾ | 5000 ¹⁾ | G |
|--|----------------|---|---|---|---|--------------------|--------------------|---|
| PSP article number | | H401250-000 | H401500-000 | H402000-000 | H402050-000 | H403000-000 | H405000-000 | H |
| PSP price | € | | | | | | | |
| Thermal insulation article number | | H401250-001 | H401501-000 | H402001-000 | H402051-000 | H403001-000 | H405001-100 | H |
| Thermal insulation price | € | | | | | | | |
| Diameter D | mm | 1.150 | 1,200 | 1,300 | 1.350 | 1.450 | 1.800 | |
| Without insulation D | mm | 950 | 1.000 | 1.100 | 1.100 | 1.250 | 1.600 | |
| Height H | mm | 2.060 | 2.200 | 2.420 | 2.440 | 2.700 | 2.950 | |
| Tilt height | mm | 2.090 | 2.215 | 2.450 | 2.450 | 2.705 | 3.010 | |
| Weight PSP | kg | 146 | 162 | 225 | 225 | 280 | 504 | |
| Heating surface | m ² | 3,0 | 3,6 | 4,2 | 4,2 | 4,2 | 6,0 | |
| Energy efficiency class | |  |  |  |  | | | |
| Standing losses | watt | 157 | 170 | 204 | 190 | | | |
| Nominal volume | litre | 1.284 | 1.515 | 2.054 | 2.054 | | | |
| Vol. of the non-solar thermal store | litre | 474 | 574 | 729 | 729 | | | |
| Standby losses according to ÖNORM EN 12897 | kWh/24h | 3,77 | 4,09 | 4,90 | 4,56 | | | |

1) Ex factory in Austria!

| Accessories | Art. No. | € | G |
|-------------|----------|---|---|
|-------------|----------|---|---|



Surcharge flange connection PN6 for HERZ buffer tanks (indicate amount when ordering)

Power input into the buffer

Recommended dimension

> 150 kW

DN 50

X000102-050

H

> 200 kW

DN 65

X000102-065

H

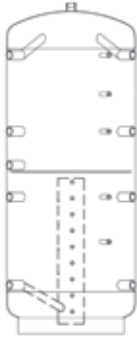
PN10, PN16 on request!

The form „buffer tanks customised“ on page 88 has to be completed and attached to the order!



STRATIFIED BUFFER TANK for modern energy management

Stratified buffer tank PSP-SL 500 - 1500



- Tank made of quality steel
- Operation pressure max. 3 bar
- Stration plate
- Stration unit
- 9 sockets 6/4" internal thread
- 5 sockets 1/2" internal thread
- Socket for air vent valve 6/4"

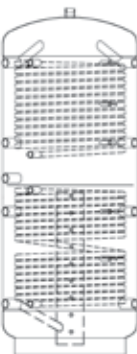
Stratified buffer tank PSP-SL-R 500 - 1500



- Tank made of quality steel
- Operation pressure max. 3 bar
- Stration plate
- Stration unit
- 9 sockets 6/4" internal thread
- 5 sockets 1/2" internal thread
- Socket for air vent valve 6/4"

PSP-SL-R:
with one high performance pipe heat exchanger,
connections 1"

Stratified buffer tank PSP-SL-RR 500 - 1500



- Tank made of quality steel
- Operation pressure max. 3 bar
- Stration plate
- Stration unit
- 9 sockets 6/4" internal thread
- 5 sockets 1/2" internal thread
- Socket for air vent valve 6/4"

PSP-SL-RR:
with two high performance pipe heat exchanger,
connections 1"






Insulation:

PSP-SL, PSP-SL-R,
PSP-SL-RR 500

Firmly foamed-in, PU rigid foam insulation (CFC-free) 50 mm

PSP-SL, PSP-SL-R &
PSP-SL-RR 800 - 1500

Separately supplied high-quality polyester fleece insulation 100 mm with PVC jacket

| PSP-SL PSP-SL-R PSP-SL-RR | Type | 500 | 800 | 1000 | 1250 | 1500 | G |
|--|----------------|---|---|---|---|---|---|
| PSP-SL | € Art. No. | H600500-100 | H600800-000 | H601000-000 | H601250-000 | H601500-000 | H |
| PSP-SL-R | € Art. No. | H600501-100 | H600801-000 | H601001-000 | H601251-000 | H601501-000 | H |
| PSP-SL-RR | € Art. No. | H600502-100 | H600802-000 | H601002-000 | H601252-000 | H601502-000 | H |
| Insulation Art. No. for PSP-SL, PSP-SL-R, PSP-SL-RR | € inclusive | | H400801-000 | H401001-000 | H401250-001 | H401501-000 | H |
| D Diameter | mm | 750 | 990 | 990 | 1.150 | 1,200 | |
| D Without insulation | mm | ** | 790 | 790 | 950 | 1.000 | |
| H Height incl. insulation | mm | 1.630 | 1.760 | 2.090 | 2.060 | 2.200 | |
| Tilt height | mm | 1.794 | 1.740 | 2.090 | 2.090 | 2.215 | |
| Weight PSP-SL | kg | 90 | 112 | 132 | 162 | 182 | |
| Weight PSP-SL-R | kg | 114 | 145 | 170 | 205 | 225 | |
| Weight PSP-SL-RR | kg | 131 | 169 | 204 | 240 | 254 | |
| Size of heat exchanger PSP-R | m ² | | | | | | |
| Bottom PSP-SL-R & PSP-SL-RR | | 1,8 | 2,4 | 3,0 | 3,0 | 3,6 | |
| Top PSP-SL-RR | | 1,2 | 1,8 | 2,4 | 2,4 | 2,4 | |
| Energy efficiency class | |  |  |  |  |  | |
| Standing losses | watt | 92 | 117 | 144 | 157 | 170 | |
| Nominal volume | litre | 490 | 732 | 925 | 1.284 | 1.515 | |
| Vol. of the non-solar thermal store | litre | 187 | 276 | 340 | 474 | 574 | |
| Standby losses according to ÖNORM EN 12897 | kWh/24h | 2,21 | 2,81 | 3,46 | 3,77 | 4,09 | |

** fix foamed-in

FRESH WATER MODULE FOR HYGIENIC DOMESTIC HOT WATER PREPARATION

Fresh water module

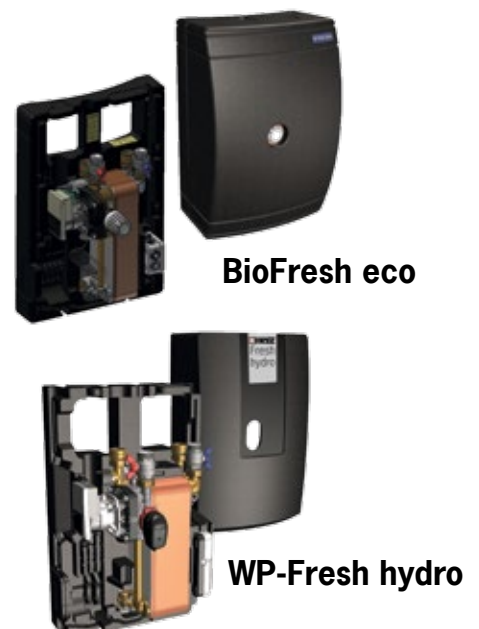
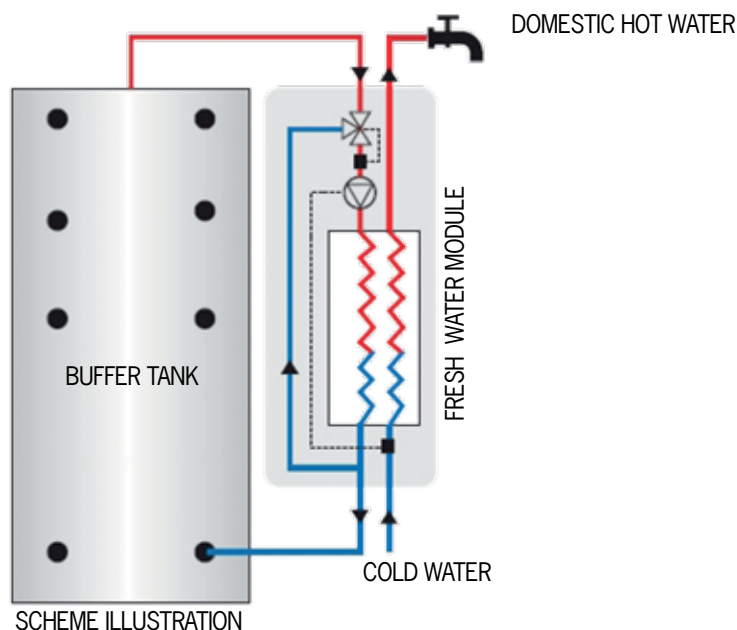
Compact pre-mounted unit for hygienical warm water preparation. The fresh water module produces domestic hot water after the flow principle which prevents development of legionella and guarantees lowest standby losses. The primary pump pumps the heating water from the buffer tank through a temperature control unit by 2-way-plate heat exchanger, so fresh water will be heated up that the fixed water temperature is reached. The buffer water is maximally cooled both in the inlet and outlet of the heat exchanger and thus excludes heat-related calcification.

STANDARD VERSION


| | |
|---|---|
| • 2-way-plate heat exchanger | ✓ |
| • Primary pump (ErP ready) | ✓ |
| • Flow switch and thermostat | ✓ |
| • Heat insulation | ✓ |
| • Push-in connection for circulation unit | ✓ |

BENEFITS

- No domestic water tank necessary - no storage of warm water!
- Only the amount of domestic hot water which is used by the tap, is heated
- 100 % self-venting
- Easy assembly due to its compact design, minimal plumbing effort mounted directly on the wall
- Smallest construction
- Can be used in a variety of ways: detached and semi-detached houses, sports facilities, retirement homes, hotels, etc.




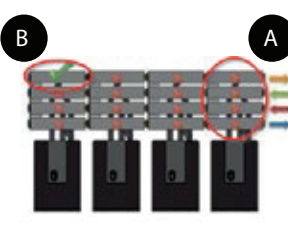

| BioFresh eco - biomass | Art. No. | € | G |
|------------------------|----------|---|---|
|------------------------|----------|---|---|

| | | | |
|---|-----------------|-------------|---|
|  | BioFresh eco 30 | SP4FW02-030 | H |
|---|-----------------|-------------|---|

| Technical data BioFresh eco 30 | | | |
|--------------------------------|--|--|--|
|--------------------------------|--|--|--|

| | |
|---|-------------|
| Dimensions W/H/D mm | 400/600/292 |
| Maximum tapping volume litre/min. | 30 |
| Primary circulation pump | Yonos Para |
| Connection dimensions for the heating and plumping part | R 1" |
| Max. operating temperature | 95 °C |




| WP-Fresh hydro - biomass | | | |
|--------------------------|--|--|--|
|--------------------------|--|--|--|

| | | | |
|--|---|-------------|---|
|  | WP-Fresh hydro 40 | SP4FW03-040 | H |
| | WP-Fresh hydro 40 with INOX (stainless steel) - heat exchanger | SP4FW03-046 | H |
| | WP-Fresh hydro 80* | SP4FW03-080 | H |
| | WP-Fresh hydro 120* | SP4FW03-120 | H |
| | WP-Fresh hydro 160* | SP4FW03-160 | H |
| | * 2, 3 or 4 times WP-Fresh hydro 40, cascade valves, control master with communication module | | |
|   | Cascade piping set Info:1 pcs. per module necessary! | SP4FW02-130 | H |
| | Cascade hygienic set Info: Only possible in combination with the piping set! | SP4FW02-131 | H |

| Technical data | 40 | 80 | 120 | 160 |
|----------------|----|----|-----|-----|
|----------------|----|----|-----|-----|

| | | | | |
|---|-------------|-------------|--------------|--------------|
| WP-Fresh hydro | | | | |
| Dimensions W/H/D mm | 400/600/302 | 800/600/302 | 1200/600/302 | 1600/600/302 |
| Maximum tapping volume litre/min. | 40 | 80 | 120 | 160 |
| Primary circulation pump | Yonos Para | - | - | - |
| Connection dimensions for the heating and plumping part | R 1" | R 1" | R 1" | R 1" |
| Max. operating temperature | 95 °C | 95 °C | 95 °C | 95 °C |

| Circulation set for BioFresh eco & WP-Fresh hydro | | | |
|---|--|--|--|
|---|--|--|--|

| | | | |
|---|---|-------------|---|
|  | Circulation set (6 m) consisting of: Push-in adapter 3/4", pump, ball valves, non-return valve, circulation tappet | SP4FW02-140 | H |
|  | Circulation pump 6 m for cascade | SP4FW02-142 | H |
|  | Circulation pump 10 m for cascade | SP4FW02-141 | H |

MULTIFUNCTION STORE

Multifunction store Type 800 / 1000

The multifunction store guarantees optimal storage stratification and energy distribution. Specially fabricated components (stratification plates, inflow deflector plates, position of the nozzle etc.) and an intelligent construction characterise this high performance storage tank. Excellent part load and nominal load behavior is the result.

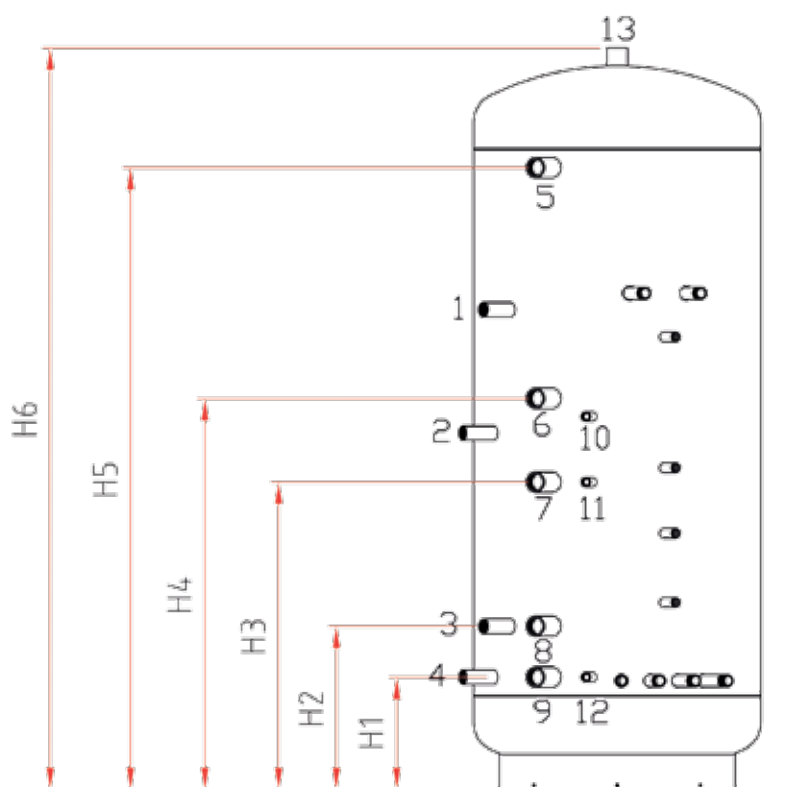
STANDARD VERSION

- Two-zone-buffer tank
- Hygienic hot water preparation 40 l/min
- Connection kit for easy installation
- Connection for electric heater



OPTIONAL

- Heating circuit unit for max. 2 low temperature heating circuits
- Buffer connection for solar system or additional boiler (optional)



| Multifunction store | Art. No. | € | G |
|---------------------|----------|---|---|
|---------------------|----------|---|---|



| | | | |
|--|-------------|-------|-------|
| Tank (incl. thermal insulation) & fresh water module 40 litre/min. | | | |
| Type 800 | W001800-451 | | H |
| Type 1000 | W001000-451 | | H |
| Multifunction store | Type | 800 | 1000 |
| Nominal pressure tank | bar | 3 | 3 |
| Nominal volume TOP (domestic hot water) | l | 468 | 604 |
| Nominal volume BOTTOM (domestic heating) | l | 332 | 396 |
| Tilt height | mm | 1.740 | 2.090 |
| Height | mm | 1.689 | 2.041 |
| Diameter incl. insulation | mm | 990 | 990 |
| Tapping performance | l/min | 40 | 40 |
| Weight | kg | 118 | 153 |

Connections

- | | |
|--|--|
| 1. Flow for domestic hot water tank loading | |
| 2. Back flow for domestic hot water tank loading | |
| 3. Flow for buffer tank loading | |
| 4. Back flow for buffer loading | |
| 5. Flow - additional heating system for domestic hot water tank loading | H1 Height (Back flow - additional heating system for buffer tank loading) |
| 6. Back flow - additional heating system for domestic hot water tank loading | H2 Height (Electrical heater) |
| 7. Flow - additional heating system for buffer tank loading | H3 Height (Flow-additional heating system for buffer tank loading) |
| 8. Electrical heating (E-heater) | H4 Height (Back flow-additional heating for domestic hot water tank loading) |
| 9. Back flow - additional heating system for buffer tank loading | H5 Height (Flow-additional heating for domestic hot water tank loading) |
| 10. Hot water tank sensor | H6 Height (safety group) |
| 11. Buffer top sensor | |
| 12. Buffer bottom sensor | |
| 13. Safety group | |

| Accessories | Art. No. | € | G |
|-------------|----------|---|---|
|-------------|----------|---|---|



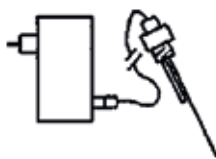

| | | |
|--|-------------|---|
| HERZ Pumpfix hybrid tower 1 NT-HK (low temperature heating circuit) | 4590100-050 | G |
|--|-------------|---|

| | | |
|--|-------------|---|
| HERZ Pumpfix hybrid tower 2 NT-HK (low temperature heating circuit) | 4590100-060 | G |
|--|-------------|---|



| | | |
|---|-------------|---|
| Solar station Sunny up to 25 m ² (incl. own integrated control + HE-pump) | 4590100-070 | G |
|---|-------------|---|

TANK

| Accessories | | Art. No. | € | G |
|---|---|-------------|---|---|
|  | Current anode, 1/2", maintenance-free, instead of magnesium. Anodes can be replaced in all tank sizes | H400001-200 | | H |
| | Screw-in radiator for 6/4" socket, 2.5 kW, 230 V; Length: 320mm | H400064-025 | | H |
| | Screw-in radiator for 6/4" socket, 3.0 kW, 230 V; Length: 320mm | H400064-030 | | H |
| | Screw-in radiator for 6/4" socket, 4.5 kW, 230 V; Length: 480mm | H400064-046 | | H |
| | Screw-in radiator for 6/4" socket 3.0 kW, 3~400 V; Length: 300 mm | H400064-031 | | H |
| | Screw-in radiator for 6/4" socket, 4.5 kW, 3~400 V; Length: 450mm | H400064-045 | | H |
| | Screw-in radiator for 6/4" socket, 6.0 kW, 3~400 V; Length: 600mm | H400064-060 | | H |
| | Screw-in radiator for 6/4" socket, 9.0 kW, 3~400 V; Length: 700 mm | H400064-090 | | H |
|  | Stainless steel corrugated pipe connector 6/4" - DN 32 for buffers till 1000 litre (price per piece) | SP4WV01-101 | | H |

NOTES

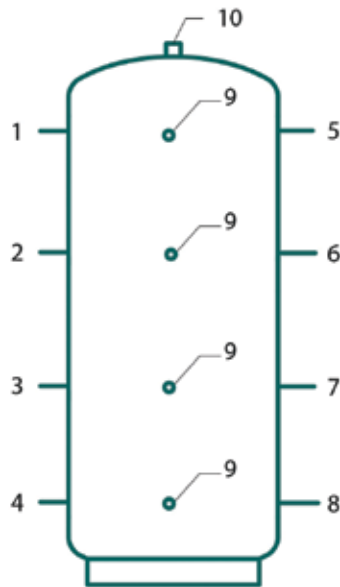
5

Form for buffer tanks customised

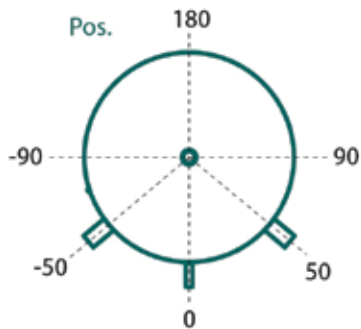
Order No. _____

Hinweis! Bitte bitte immer ein Formular pro Type verwenden
Notical Please, use always a form per design.

Basis Puffer inkl. 4 Muffen 1/2" mit Fußring
Basis thermal store with 4 sockets 1/2" and footrim



Max. Betriebsdruck 3 bar / max. Betriebstemperatur 95°C
 Max. operating pressure 3 bar
 Max. operating temperature 95°C



Auf- und Einbauten / Components

Muffe / Socket

Bitte unten in der Tabelle angeben
 Please indicate in the table below



Flansch / Flange

Bitte unten in der Tabelle angeben
 Please indicate in the table below



PN _____

Krümmer / Snorkel

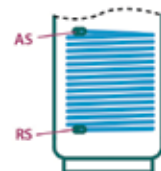
Anzahl/Number: _____

Bei Nr. / at Nr.: _____

ev. auf Abbildung einzeichnen
 If needed indicate on the design



Solarregister / Solar coil



Bitte wenn betreffend hier einkreuzen
 Please, if concerning mark the square below



Standfüße / Supporting legs

Standardmäßig bei 4000 und 5000 L
 by default on 4000 and 5000 L

Bitte wenn betreffend hier einkreuzen
 Please, if concerning mark the square below



11 Entleerung / Drain socket

Entleerung nur bei der Ausführung mit Standfüßen möglich
 Drain socket possible only with supporting legs

| Nr. | Bezeichnung / Description | Dimension | Pos. |
|-----|----------------------------------|-----------|------|
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | Muffe / Socket | 1/2" | |
| 10 | Entlüftung / Socket for air vent | 1 1/2" | |
| 11 | | | |
| | | | |
| | | | |

*) bei Anzahl: die Type und Menge angeben / * Indication specifies the model and quantity needed

| * Anzahl * Indication | Type | 1-5 (9) # | 2-6 (9) | 3-7 (9) | 4-8 (9) # | RS | AS | H | Ø D | R | m² |
|--------------------------|------|-----------|---------|---------|-----------|-----|------|------|------|------|-----|
| | 800 | 1426 | 1026 | 626 | 256 | 256 | 801 | 1686 | 790 | 1740 | 2,4 |
| | 1000 | 1720 | 1249 | 844 | 300 | 300 | 970 | 2041 | 790 | 2090 | 3,0 |
| | 1250 | 1700 | 1239 | 784 | 300 | 300 | 970 | 2017 | 950 | 2090 | 3,0 |
| | 1500 | 1750 | 1285 | 900 | 350 | 350 | 1000 | 2152 | 1000 | 2210 | 3,6 |
| | 2000 | 2025 | 1489 | 959 | 325 | 325 | 1105 | 2377 | 1100 | 2450 | 3,6 |
| | 2500 | 2058 | 1528 | 938 | 358 | 358 | 1158 | 2443 | 1200 | 2515 | 4,2 |
| | 3000 | 2250 | 1700 | 950 | 350 | 350 | 1400 | 2635 | 1250 | 2705 | 4,2 |
| | 4000 | 2387 | 1837 | 1087 | 487 | 487 | 1537 | 2818 | 1400 | 2910 | 5,0 |
| | 5000 | 2400 | 1770 | 1120 | 540 | 540 | 1540 | 2880 | 1600 | 3010 | 6,0 |

Die Position variiert in Abhängigkeit der Dimension des Stützens / # Position varies according to the size of the connection

PLANUNGSBOGEN BIOMASSE-ANLAGEN PLANNING ASSISTANCE BIOMASS BOILERS

| | | |
|--|------------------------------------|---|
| Name: (name) | Bearbeiter: (agent) | |
| Anschrift: (address) | Datum: (date) | |
| PLZ / Ort: (postcode/city) | Abgabetermin: (closing date) | KW (week) |
| Tel.Nr.: (phone) | Baustelle: (building site) | |
| Fax: | Anlieferung per: (delivery per) | LKW mit Bühne: (truck with platform) |
| E-Mail: | | LKW mit Kran: (truck with crane) |
| | | Hubwagen erf.: (handlift required) |
| Heizungsbauer / Installateur (technical firm/plumber): | | |

Produkt / Anlagentyp/Brennstoff
(type of product / fuel)

Leistung:
(power)

kW
(kilowatt)

Bestehend (existing):

| | | |
|--|--------------------------|--------------------------|
| Heizkreise: (heating circuits) | Stk.: (numbers) | |
| HK: (radiator circuit) | FBH: (floorheating) | WW: (hotwater) |
| Boiler: (hot water tank) | | lt. (liter/litre) |
| Pufferspeicher: (buffer) | | lt. (liter/litre) |
| Zusatzkessel: (additional boiler) | | kW (kilowatt) |
| Rücklaufanhebung: (backflow set) | <input type="checkbox"/> | <input type="checkbox"/> |
| | ja (yes) | nein (no) |
| Einbringöffnung (Länge, Breite, Höhe): (contribution space) (length, width, high) | | mm |

Geplant (planned):

| | | |
|---|--------------------------|--------------------------|
| Heizkreise: (heating circuits) | Stk.: (numbers) | |
| HK: (radiator circuit) | FBH: (floorheating) | WW: (hotwater) |
| Boiler: (hot water tank) | | lt. (liter/litre) |
| Pufferspeicher: (buffer) | | lt. (liter/litre) |
| Zusatzkessel: (additional boiler) | | kW (kilowatt) |
| Rücklaufanhebung: (backflow set) | <input type="checkbox"/> | <input type="checkbox"/> |
| | ja (yes) | nein (no) |
| Thermostat-/ Motorventil: (thermostatic/motor valve) | <input type="checkbox"/> | <input type="checkbox"/> |
| Brauchwassermodul (domestic water module): | | lt. (liter) |

Heizraum (boiler room):

| | | |
|--|--------------------------|--------------------------|
| Länge: (length) | | mm |
| Breite: (width) | | mm |
| Höhe: (height) | | mm |
| Kaminquerschnitt: (chimney dimension) | | mm |
| Kaminhöhe: (chimney height) | | mm |
| Kaminsanierung erforderlich: (chimney renovation essential) | <input type="checkbox"/> | <input type="checkbox"/> |
| | ja (yes) | nein (no) |

Lagerraum (storage room):

| | | |
|------------------------------------|--------------------------|--------------------------|
| Länge: (length) | | mm |
| Breite: (width) | | mm |
| Höhe: (height) | | mm |
| Austragung: (transport system) | | mm |
| Wandstärke: (wall thickness) | | mm |
| Steigschnecke: (climbing screw) | <input type="checkbox"/> | <input type="checkbox"/> |
| | ja (yes) | nein (no) |

Bitte gut leserlich ausfüllen und an uns faxen:
Please fill in and fax to us:

+43(0)3357/42840-190



PLANNING ASSISTANCE BIOMASS BOILERS

SKETCH ESSENTIAL!

Please fill in and fax to us:

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NOTES

6



GENERAL TERMS AND CONDITIONS OF BUSINESS AND DELIVERY HERZ ENERGIE TECHNIK GMBH

1. General information

The following General Terms and Conditions apply to all quotes, contracts, deliveries, assemblies, maintenance and all services, etc. provided by HERZ to its customers. Different agreements or side agreements of terms and conditions of the buyer shall only become valid if they are confirmed in writing by HERZ.

2. The quote

Quotes from HERZ are subject to alteration and non-binding, unless they are expressly labelled as binding in the quote text. Changes to the goods or to the design as a result of technical developments are reserved. The weights, dimensions and technical specifications stated for HERZ products are non-binding. All technical documents - also in electronic form - including all images and brochures, shall remain the property of HERZ and shall remain its copyright. Any use, notably forwarding, reproduction and publication, shall require the express consent of HERZ.

3. Prices

Unless agreed in writing, prices are net ex works (EXW Incoterms 2000) without packaging and without discount. They are only guide prices. If there are increases in material costs between conclusion of the contract and performance as a result of recommendations from a joint commission or due to changes in global market prices for raw materials or cost prices or additional work and additional costs caused by circumstances not in the contractor's sphere of influence, HERZ reserves the right to adjust the prices. This does not apply if there are fewer than 3 months between conclusion of the contract and performance. If delivery free site is agreed, this means access is via an easily accessible road but without unloading the delivered goods. Additional services and deliveries shall be billed separately. For goods delivered ex works Incoterms 2010, these are deemed to be accepted.

Services, including training and instruction for employees of the contractual partner, shall be charged according to the applicable services price list.

4. Entering into a contract

4.1 A contract is deemed concluded when HERZ, after receiving an order, sends a written order confirmation or if the goods are delivered to the purchase directly after receipt of order. In the latter case, the invoice is simultaneously the order confirmation.

4.2 Side agreements and changes or supplements requested by the purchase after conclusion of a contract require written confirmation from HERZ in order to be valid. All changes after entering into a contract, which are made upon request from the purchaser or costs incurred by HERZ as a result of cancellation, shall be borne by the purchaser. HERZ is free to reject orders without stating grounds. If prepayments have been made in the meantime, these shall be refunded.

5. Performance periods and deadlines

5.1 Performance periods, which are not expressly designated as binding, are non-binding.

5.2 Compliance with an agreed performance period requires all commercial and technical questions to be clarified between the contractual parties and for the ordering party to have fulfilled all its obligations. If this is not the case, the performance period shall be extended appropriately. A performance period is complied with if the shipment is ready for shipping within the period and this has been advised to the purchaser. If acceptance has to be performed, the acceptance date shall apply, alternatively the notification from HERZ of readiness for acceptance.

5.3 Before the end of the performance period, HERZ reserves the right to make partial deliveries and submit partial invoices to a reasonable extent.

5.4 Compliance with the performance deadline is subject to correct and timely self-delivery. HERZ shall report any obviously developing delays.

5.5 If non-compliance is due to force majeure, labour disputes, delays in receiving state approvals or other events outside HERZ's sphere of influence, the delivery period shall be extended accordingly. This shall also apply if HERZ is in arrears with provision of the work and services. Any obviously developing delays in the provision of work and services shall be reported.

5.6 If there are delays to the assembly or commissioning or delays to subsequent trades or work by other companies that are longer as a result of delivery delays, partial deliveries, longer than envisaged assembly times, or similar, claims for compensation against Herz are excluded unless the delays are due to malice or gross negligence.

6. Delivery period

6.1 Delivery dates are always non-binding unless a fixed date has been expressly agreed in writing. A delayed delivery shall not entitle the purchaser to assert claims for compensation or to withdraw from the contract. Nevertheless, HERZ shall take all measures in order to fulfil the desired dates of its customers.

6.2 In the event of delayed delivery, the purchase only reserves the right of withdrawal after a reasonable subsequent deadline set by it has passed.

6.3 The delivery time is deemed to be interrupted for the duration of circumstances, which cannot be influenced by HERZ or by suppliers to HERZ: e.g. Difficulties in procuring raw materials, business interruption, strikes or lockouts, and all cases of force majeure.

6.4 If the grounds for delays as listed in No. 5.3 last longer than 12 weeks, both HERZ and the purchaser reserve the right to withdraw from the contract without stating further reasons.

6.5 If goods manufactured on time are not transferred to the purchaser at the agreed location or on the contractually agreed date, HERZ can store the goods at the purchaser's costs and risk. The purchaser's obligation to pay the purchase price shall remain unaffected. In addition, HERZ reserves the right to present the invoice.

6.6 HERZ reserves the right to make partial and advance deliveries.

6.7 In the case of a delay to the work and services or of an interruption, which are caused by the purchaser, the purchaser shall bear all additional costs incurred as a result of the delay or interruption, and HERZ can submit partial invoices for its work and costs. Delivery of the HERZ products - as represented in the price table - shall generally be within the usual market and industry packaging. The goods are insured against transport damage, transport losses or breakage only upon written request from the purchaser and at its cost. If there are delays to the assembly or commissioning or delays to subsequent trades or work by other companies that are longer as a result of delivery delays, partial deliveries, longer than envisaged assembly times, or similar, claims for compensation against HERZ are excluded unless the delays are due to malice or gross negligence. Unless the delay is due to malice or gross only by HERZ but not by its suppliers.

7. Delivery, transport and transfer of risk

7.1 Risk, including risk of seizure, for whatever reason, shall transfer to the purchaser with handover of the goods to the haulier or freight carrier, but not later than upon leaving the HERZ plant. If the shipment is delayed due to conduct by the purchaser or as a result of circumstances that HERZ is not responsible for, risk shall transfer to the purchaser upon notification of readiness for shipping. For delivery with installation and assembly, risk shall transfer on the date the plant is handed over or, if agreed, after completion of the test operation.

7.2 Delivery of the Herz products - as represented in the price table - shall generally be within the usual market and industry packaging.

7.3 The goods are insured against transport damage, transport losses or breakage only upon written request from the customer and at its cost.

7.4 If delivery free site is agreed, access to the unloading site must be possible for a 40-tonne truck, but without unloading the delivered goods. Exceptions shall be agreed in writing.

7.5 The delivery time is deemed to be interrupted for the duration of circumstances, which cannot be influenced by HERZ or by suppliers to HERZ: e.g. Difficulties in procuring raw materials, business interruption, strikes or lockouts, and all cases of force majeure.

7.6 If the grounds for delays as listed in No. 7.3 last longer than 12 weeks, both HERZ and the contractual partner reserve the right to withdraw from the contract without stating further reasons.

7.7. The vendor reserves the right to make partial and advance deliveries.

7.8 In the case of a delay to the work and services or of an interruption, which are caused by the purchaser, the purchaser shall bear all additional costs incurred as a result of the delay or interruption, and HERZ can submit partial invoices for its work and costs. Delivery of the Herz products as represented in the price table shall be as agreed under No. 6. If there are delays during assembly or commissioning or if there are delays to subsequent trades or work from other companies, the agreements as agreed in No. 5.6 shall apply.

8. With drawal from the contract

Upon withdrawal from the contract (sales order), for which the purchaser exclusively is responsible and which is a case according to Nos. 5.3 and 5.4, it is agreed that in this case the purchaser shall pay a cancellation fee of 20 % of the order value as compensation.

9. Payments

Unless agreed otherwise, all payments shall payable and therefore due within 30 days of delivery by bank transfer into the HERZ bank account or in cash, free of expenses and without deduction. Fees for collection or discount shall be charged to the purchaser. The purchaser is required to pay the respective purchase price in full. The offsetting with counter-claims or retention of payments by the purchaser for whatever reason are not permitted without express agreement, unless the purchaser's claim has been acknowledged in writing by Herz or has been legally upheld. Other payment agreements must be in writing.

10. Dunning and debt collection costs

The purchaser shall pay default interest at the rate of 8 percentage points above the respective base rate if a payment date is missed or date is lost. In the case of default and after unsuccessful dunning twice by HERZ, the purchaser is required to reimburse the costs dunning costs, intervention costs and the costs for debt collection and involvement of the lawyers in addition to the default interest. Warranty claims asserted by the purchaser shall not entitle it to withhold agreed payments. HERZ reserves the right to offset payments made by the purchaser against debt collection costs incurred, payments may also be offset against older debts even in the event of different allocation by the purchaser. Contradictory instructions, for example on the payment documents, are invalid.

11. Loss of date

In the event of default, HERZ reserves the right to withdraw from the contract. In the event of withdrawal from the contract. The purchaser shall pay a reasonable fee for use of the contractual goods until the actual retraction.

12. Shipping and handover conditions

Immediately after receiving the goods at the agreed destination, the purchaser shall inspect and accept them or have then invested and accepted by authorised persons. If the purchaser expressly or tacitly waives the inspection, the purchased object is deemed to have been delivered correctly and accepted. Shipping shall be at the purchaser's account and cost, the purchaser's conditions regarding the method and route of shipping are not binding for HERZ and HERZ reserves the right of selection. HERZ reserves the right but is not required to insure deliveries against normal transport risks in the name of an on account of the purchaser. Risk, including risk of seizure, for whatever reason, shall transfer to the purchaser with handover of the goods to the haulier or freight carrier, but not later than upon leaving the HERZ plant.

Upon handover of the goods ordered by the purchaser to the carrier (post office, railway or haulier), HERZ has fulfilled its contractual obligations and risk shall transfer to the purchaser. The sales costs of HERZ do not include costs for delivery, assembly and installation.

If delivery is made by HERZ, risk shall transfer on the date of handover of the plant.

13. Retention of title

13.1. HERZ shall retain ownership of all goods delivered by it until full payment. The purchaser shall preserve the value of the conditional goods and shall immediately inform HERZ in the event that claims are asserted by third parties regarding HERZ property. The purchaser shall inform its customers that all goods supplied by HERZ are subject to retention of title and that it therefore cannot transfer ownership to its customers before full payment of the debts to HERZ.

13.2 If the goods are supplied directly by the purchaser to third parties, the purchaser shall be entitled to compensation. For this reason, the purchaser herewith assigns all claims and incidental claims against third parties from such sales to HERZ and shall declare this advance assignment for the purchase price demands for the conditional goods in its accounts. The claim up to the amount of the outstanding invoice amount is assigned, for current business relationships at the amount of the balance plus default interest. In the case of resale, the purchaser is liable until full payment of all demands by HERZ for all goods and services provided to it, also in the event of fire, theft or other damage.

13.3. Pledging or assigning of conditional goods or of the assigned claim is not permitted.

13.4. The purchaser shall fulfil the necessary formal provisions regarding safeguarding the retention of title before handover to a third party by correspondingly labelling the property of HERZ. In the event of seizure or other claim of the contractual object, the purchase shall point out HERZ's property rights and shall immediately inform HERZ by registered letter.

13.5. Any claims by the purchaser against an insurer in respect of HERZ goods not yet fully paid for are hereby assigned to HERZ within the limits of s. 15 VersVG.

13.6. In the event of processing, combining and mixing of plant parts, devices, fittings, etc. subject to retention of title, HERZ shall be entitled to joint ownership of the new items, namely in the same ratio as the invoice value of the conditional goods to the invoice value of the other goods, whereby he costs for processing shall be added to this invoice value.

14. Product liability and claims for compensation

14.1. In the event of injury to life, limb or health, which is due to a negligent breach of duty by HERZ or a culpable or negligent breach of duty by one of its statutory representatives or vicarious agents, HERZ shall be liable in accordance with the statutory conditions.

The following applies to other damages:

a) For damages caused by a grossly negligent breach of duty by HERZ or culpable or grossly negligent breach of duty by one of its statutory representatives or vicarious agents, HERZ shall be liable in accordance with the statutory conditions.

b) HERZ's liability for damages due to a breach of material contractual duties resulting from slight negligence by HERZ is restricted to the foreseeable, contractually typical damage up to a maximum of 100% of the net purchase price.

c) Claims for compensation for other damage due to a breach of secondary duties or immaterial duties in the case of slight negligence are excluded.

d) Claims for compensation from default, which are due to slight negligence, are excluded; the purchaser's statutory rights after expiration of a reasonable additional period shall remain unaffected.



GENERAL TERMS AND CONDITIONS OF BUSINESS AND DELIVERY HERZ ENERGIE TECHNIK GMBH

e) The liability exclusions or restrictions shall not apply if HERZ maliciously concealed a defect or has assumed a warranty for the condition of the object.
f) The purchaser's claim for replacement if any costs incurred in vain rather than compensation instead of performance shall remain unaffected.

14.2. HERZ is not liable for indirect damages resulting from a defective delivery, e.g. loss of production, increased production costs, lost profits and increased material consumption, except in the cases of malice or gross negligence.

14.3. Any regress claims, which the purchaser or third parties direct against HERZ from the product liability as defined in the Product Liability Act (Produkthaftungsgesetz - PHG), are also excluded. Unless the party entitled to recourse proves that the fault was caused culpably by HERZ or at least grossly negligently.

14.4. Insofar as the purchaser proves corresponding damage, claims for compensation due to non-performance are restricted to the amount of 20% of the value of the part of the delivery or service affected by impossibility or default. No liability is assumed if equipment or installations of the purchaser or its customers are defective as a result of integration of the defect-free goods.

15. Warranty claims and complaints due to defects

15.1. The statutory conditions and deadline for moveables shall apply to these. The warranty only applies to defects that occurred despite compliance with the operating instructions, maintenance provisions, installation instructions and service instructions from HERZ etc. It is excluded for defects, which arise due to normal wear and tear, worn parts, incorrect installation by the customer or its agents, incorrect maintenance or maintenance not carried out and documented regularly, or incorrect repairs or changes performed by third parties or repairs or changes performed by third parties without written consent from HERZ and replacement of parts, which HERZ did not manufacture.

15.2. For itself and its legal successors-in-title, the purchaser expressly waives the assertion of direct or indirect damage as a result of the purchased object or defect to the purchased object, but not in the case of gross negligence caused by the purchaser (consequential damage or consequential damage caused by defects) and lost profit. If a duty to report as defined in s. 377 UGB is breached, the purchaser shall lose its right to redress. Damage, which is due to incorrect or negligent treatment as described above, is excluded from the warranty and guarantee. Warranty and guarantee claims are only acknowledged and taken into account if they are reported in writing immediately after occurrence of the defect, with a precise description of the defect. Verbal agreements are not sufficient to trigger a warranty claim. The work and services provided by HERZ shall be accepted directly after completion. Immaterial defects, which do not affect the functioning and operation of the heating system, should be recorded in the acceptance protocol and do not entitle the purchaser to refuse acceptance. If acceptance is delayed due to no fault of HERZ, acceptance shall be deemed to have occurred 12 working days after notification of the respective work and services. The warranty or guarantee starts from commissioning of the plant by the certified local customer service, but not later than 90 days after delivery if this is not facilitated by the purchaser.

15.3. Services provided as part of the work and services from HERZ shall not include an inspection of the entire system. A check of the seal of supply lines connected on site, and the inspection of the correct installation of electricity cables, including connections to peripheral devices, are not included in the work and services from HERZ. HERZ does not assume any liability for documents provided to HERZ. HERZ is not required to check whether information and documents provided to HERZ by the purchaser are correct and suitable for the intended use. This shall apply in particular to plant descriptions and plant diagrams.

15.4. HERZ is not required to replace or repair as long as the purchaser has not fulfilled its contractual obligations. The same warranty period shall apply to free spare parts and repairs as to the original delivered object. However, it is time-limited to the end of the warranty period of the original delivered object. Replaced parts shall become the property of HERZ and should be sent to HERZ free of charge. Extraordinary costs for repair caused by the type and location of the HERZ device or due to poor accessibility shall not be assumed either. The end customer shall ensure free and unhindered access to the device.

15.5. HERZ shall only be liable for costs of a repair performed by the purchaser itself if HERZ has granted its written consent in advance.

15.6. An additional requirement for fulfilment of the warranty claims is regular maintenance or conclusion of a maintenance agreement through HERZ or its warrantors during the warranty period. The warranty period starts upon delivery, is 6,000 operating hours or a maximum of 2 years for moveables and 9,000 operating hours or a maximum of 3 years for immovables or parts. HERZ is only liable for parts of goods, which are purchased from a subcontractor, within the framework of its own warranty claims against the subcontractor.

15.7. HERZ shall replace goods or parts of goods demonstrably unusable as a result of material or manufacturing faults free of charge within 3 years from commissioning of the plant and provided that the plant has not recorded more than 9,000 operating hours. This does not include moving and electronic and electrical parts, 2 years or 6,000 operating hours shall apply in this case.

Wear and tear to so-called wear parts and operating materials are not covered and therefore excluded, including, for example: relays, fuses, carbon brushes, bearings and seals, as well as crack formation not resulting in malfunction, oils, greases, filters, cleaning agents, coolants, heat transfer fluids, etc. However, the warranty and guarantee obligation of HERZ does not cover damages caused due to air pollution as a result of dust accumulation, aggressive vapours, installation in unsuitable rooms, notably damp rooms such as laundry rooms and hobby rooms. The HERZ warranty shall also expire if a plant is continued to be operated despite a defect without the defect being repaired. See also No. 22.

15.8. If the Herz boiler or parts of the plant fails and the heating supply fails as a result, any additional costs incurred for substitute heating (backup boiler, mobile solution or similar) and its fuel costs cannot be charged to HERZ. This is exclusively the responsibility of the plant operator.

15.9. HERZ is not liable for damages outside the Product Liability Act unless malice or gross negligence is documented, and then only within the framework of the statutory provisions. Liability for slight negligence, replacement of consequential damage, pure pecuniary losses, lost profit, unrealised savings, lost interest and damages from claims by third parties against the respective contractual partner, therefore also down times and their costs for boiler plants that we delivered, and the resulting loss of heating, any additional costs for substitute heating or similar, for use of other fuels, is excluded and the purchaser expressly acknowledges this by ordering in accordance with the HERZ delivery conditions.

15.10. HERZ shall only make delivery in the country of the delivery location free of commercial property rights and third-party copyrights. In the event that a third party lodges justified claims against the ordering party because of an infringement of property rights through a delivery by HERZ that is used in accordance with the contract, HERZ shall be liable to the ordering party for 3 years. At its own choice and own costs, HERZ shall either obtain a corresponding right of use or change the delivery such that property rights are not infringed. If this is not possible for HERZ within a reasonable period, the order shall reserve the statutory rights of withdrawal or reduction. The duties of HERZ to provide compensation are based on No. 14.

15.11. In the case that HERZ suffers any damage, for which it is liable, the liability shall be restricted to 5% of the purchase price of the relevant delivered part for which it is liable. If a penalty is agreed against HERZ, in whatever case, this shall be subject to the judicial right if moderation and the assertion of damages exceeding the penalty shall be excluded.

16. Transfer

The transfer of rights and / or duties by the purchaser or ordering party from the contract is not permitted without written consent from HERZ.

17. Plant software

Control and regulation programs, which control and regulate the operation of the supplied plant, shall remain the property of HERZ. The purchaser shall only receive an unlimited right of use to its system-based control program, therefore for the implemented software, after full payment of the instrumental scope of delivery. In the event of modified or updated software, HERZ expressly reserves the right to implement this new software if required, whereby HERZ shall not charge any costs for this. The purchase has not acquired ownership of the source code, which HERZ does not disclose either. The purchaser merely acquires the usage rights. Upon conclusion of a maintenance agreement, the software shall be automatically updated provided that this new software can be implemented in the hardware.

18. Reversing the purchase agreement

If a purchase agreement is reversed (e.g. As a result of withdrawal by one of the contractual parties), the purchaser shall return the delivered object or the supplied goods to HERZ in advance, irrespective of the further settlement according to the clauses below. HERZ reserves the right to have the delivered object or the supplied goods collected from the purchaser's premises. Furthermore, HERZ can demand that the purchaser pay reasonable compensation for the deterioration, destruction or current or future impossibility of return of the delivered object for another reason, which is in the purchaser's area of risk and responsibility. Additionally, HERZ can demand remuneration for use of the delivered object if the value of the delivered object has decreased between the end of installation and its complete, direct re-commissioning. This reduction in value is calculated from the difference between the total price according to the order and the fair value, as calculated by sales revenue or, if a sale is not possible, through estimation by a sworn expert.

19. Spare parts warranty 15 years

HERZ shall deliver spare parts for all supplied devices for 15 years from the delivery date, whereby HERZ reserves the right to supply modified but appropriate spare parts for the device.

20. Assembly

HERZ plants are assembled locally and on site. Assembly is carried out at regular hourly rates or for an agreed flat rate. The general costs for assembly / completion, commissioning of HERZ plant and training are stated in the price list (without transport to the heating room). If completion (without transport to the installation room) of the plant is agreed, access to the installation location must be possible on paved paths.

21. Commissioning the plants

The HERZ plants are supplied in accordance with electrical documentation and technical documents. The liquid (hydraulics), flue gas (flue) and electrical connections are fitted on site and must be carried out by a licensed expert / company. The HERZ plants can only be commissioned during normal working hours. Prerequisites for commissioning after prior transmission of the commissioning request:

- The heating system must be filled with heating water in accordance with the applicable standards corresponding to ONORM H5195 or VDI 2035. Specific deviations or requirements are listed in the respective product documentation.
- Completed electrical installation, ready-to-use, tested and corresponding to all requirements, must be performed a licensed expert.
- The fuel standards and required qualities of the wood, wood chips and pellets as stated in the current operating instructions must be used for the plant.
- The plant operator must be on site for training and instruction.
- The plant must be properly connected to the flue (sealed flue gas exhaust with regular draft conditions) and a flue installed according to the requirements (DIN 4705 or EN 13384).

If individual points are not fulfilled, the HERZ customer service must be informed promptly (at least 3 working days in advance) of the postponement to the commissioning date. Additional services such as overtime, commissioning the fuel supply, electrical work, etc., and all extra journeys if commissioning cannot be completed in one go, shall be charged to the client according to the actual cost. HERZ is unable to assume guarantees for connections to electrical or hydraulic supplies.

22. Fuels

All warranty and guarantee claims are only fulfilled if the fuels listed and approved in the HERZ operating instructions are used. For special fuels, corresponding approvals must be obtained from the manufacturer before ordering.

23. Place of performance

23.1. If the ordering party is a merchant, place of performance for both parties is the registered place of domicile of HERZ. Austrian law is agreed for all disputes from this contract. The competent court in Eisenstadt or Graz, to be selected by HERZ, is agreed for all disputes from this contract. German shall exclusively apply as the contractual language. All conditions shall also apply to the employees, suppliers and vicarious agents of HERZ.

23.2. The UN Convention on the International Sale of goods, CISG, is expressly excluded.

24. In principle, these general delivery terms and conditions shall only apply to legal transactions between companies.

25. If individual provisions of the contract are invalid, the rest of the contract shall remain binding. This shall not apply if adherence to the contract were to represent an unreasonable hardship for one party. If a part of these sales and delivery conditions are or become void, it is expressly agreed that this shall not affect the validity of the remaining conditions. An invalid condition shall be replaced as determined from the sense and purpose of the other conditions.

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Stamp of the representation



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