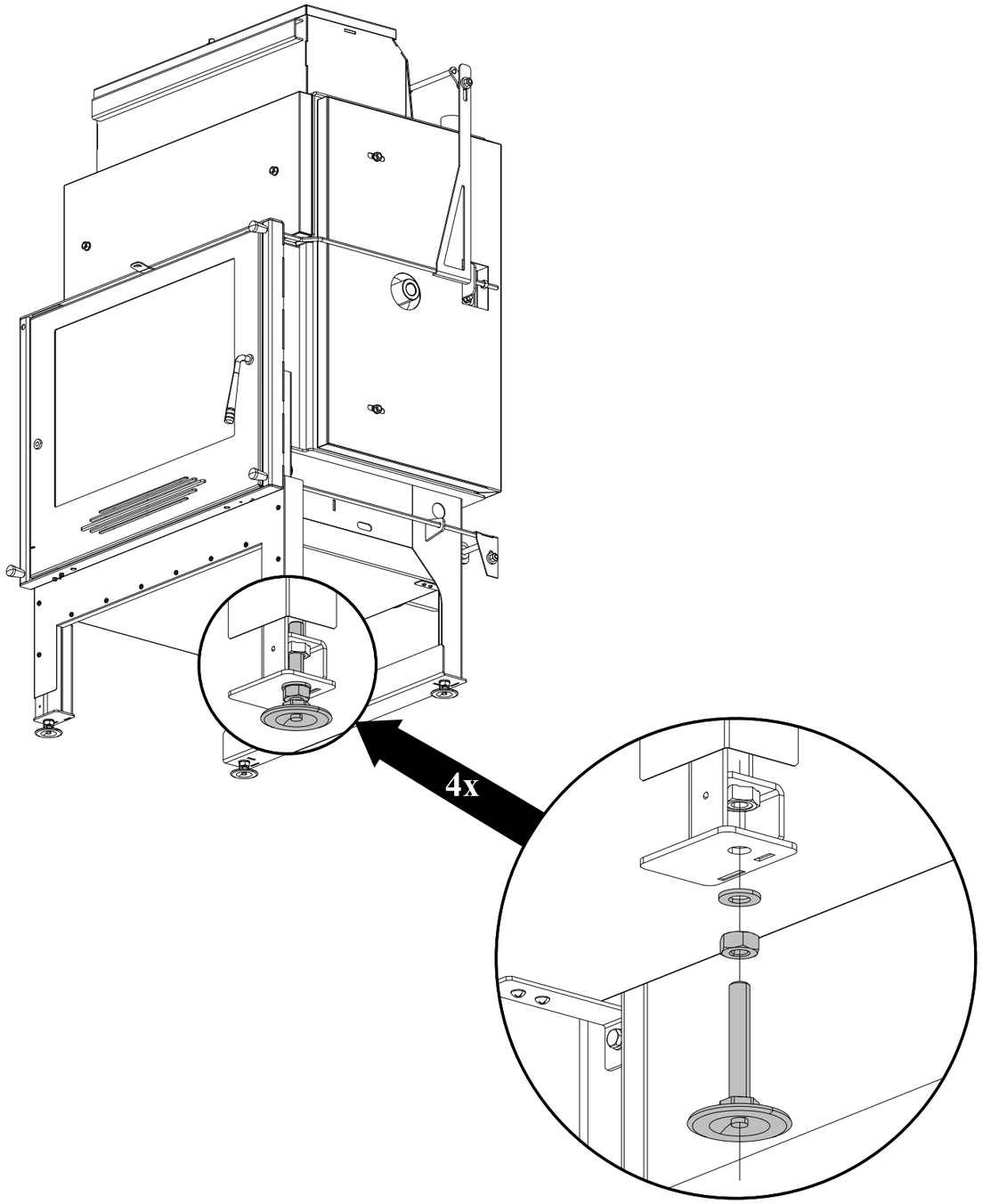
# Assembly of set screws (included in the delivery)






HAAS+SOHN

# TECHNICAL INFORMATION

| **Suitable fuel:** | **Proper operation:** |
|---|---|
| As concerns suitable fuel to be employed, see the chapter **2.2 Fuel** in the General Manual of Operation. | As concerns the proper and safe operation of the fireplace stove, see the chapters **2. Description of the combustion process** and **5. Operating instructions** in the General Manual of Operation. |

## Vesuvio 20 with exchanger

**INSTRUCTIONS FOR THE CONTROL OF COMBUSTION PROCESS:**

| **Fuel** | **Output of the heating device** | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | **100%** | **33%** | **100%** | **33%** | **100%** | **33%** | **100%** | **33%** |
| | **Amount of fuel** | | **Primary air** | | **Secondary air** | | **Tertiary air** | |
| **Blockwood** | 7,2 kg/h | 2,4 kg/h | open 10% | open 5% | open 100% | open 50% | non-controllable | |
| **Ecological briquettes** | 6,9 kg/h | 2,3 kg/h | open 10% | open 5% | open 80% | open 40% | non-controllable | |
| **Coal briquettes** | 5,7 kg/h | 1,9 kg/h | open 20% | open 10% | open 100% | open 50% | non-controllable | |

| **TECHNICAL DATA:** | **Blockwood** | **Ecological briquettes** | **Coal briquettes** | | |
|---|---|---|---|---|---|
| Achieved heat output (100%) | 25,5 kW | 25,8 kW | 25,5 kW | Height | 1297 mm |
| Reduced heat output (33%) | 8,4 kW | 8,5 kW | 8,4 kW | Width | 769 mm |
| Output delivered by the stove body only | 5,7 kW | 7,4 kW | 9,8 kW | Depth | 639 mm |
| Output available for heating of water | 19,8 kW | 18,4 kW | 15,7 kW | Weight | 209 kg |
| Maximum stoking amount of the fuel | 7,2 kg/h | 6,9 kg/h | 5,7 kg/h | Diameter of the smoke flue | 180 mm |
| Average temperature of combustion products behind the smoke flue neck | | | | Maximum operating over-pressure of the exchanger | 0,2 MPa |
| Maximum mass flow of dry combustion products | 17,7 g/s | 20,2 g/s | 23,3 g/s | Water contents of the exchanger | 71 l |
| Energy efficiency | 81,8 % | 81,7 % | 80,7 % | Recommended heat gradient (t output – t input) | 75 - 60 °C |
| Average concentration of $CO_2$ | 10,97 % | 10,14 % | 8,31 % | Min. chimney stack draught in the smoke flue neck | 12 Pa |
| Concentration of CO in combustion products at 13 % $O_2$ | 0,36 % | 0,28 % | 0,16 % | Heating capacity (middle heat losses) at 25,8 kW | about 464 $m^3$ |
| The amount of combustion air at nominal output | 55 $m^3/h$ | 60 $m^3/h$ | 70 $m^3/h$ | Range of outputs | 8,4 – 25,8 kW |
| Tested in compliance with ČSN EN 13229:2002/A2:2005 | | | CE | | |

## Vesuvio 18 with exchanger

**INSTRUCTIONS FOR THE CONTROL OF COMBUSTION PROCESS:**

| **Fuel** | **Output of the heating device** | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | **100%** | **33%** | **100%** | **33%** | **100%** | **33%** | **100%** | **33%** |
| | **Amount of fuel** | | **Primary air** | | **Secondary air** | | **Tertiary air** | |
| **Blockwood** | 6,6 kg/h | 2,2 kg/h | open 10% | open 5% | open 100% | open 50% | non-controllable | |
| **Ecological briquettes** | 6,3 kg/h | 2,1 kg/h | open 10% | open 5% | open 80% | open 40% | non-controllable | |
| **Coal briquettes** | 5,4 kg/h | 1,8 kg/h | open 20% | open 10% | open 100% | open 50% | non-controllable | |

| **TECHNICAL DATA:** | **Blockwood** | **Ecological briquettes** | **Coal briquettes** | | |
|---|---|---|---|---|---|
| Achieved heat output (100%) | 23 kW | 23 kW | 23 kW | Height | 1247 mm |
| Reduced heat output (33%) | 7,6 kW | 7,6 kW | 7,6 kW | Width | 769 mm |
| Output delivered by the stove body only | 5 kW | 5 kW | 5 kW | Depth | 639 mm |
| Output available for heating of water | 18 kW | 18 kW | 18 kW | Weight | 200 kg |
| Maximum stoking amount of the fuel | 6,6 kg/h | 6,3 kg/h | 5,4 kg/h | Diameter of the smoke flue | 180 mm |
| Average temperature of combustion products behind the smoke flue neck | | | | Maximum operating over-pressure of the exchanger | 0,2 MPa |
| Maximum mass flow of dry combustion products | 15,5 g/s | 18,7 g/s | 22,15 g/s | Water contents of the exchanger | 65 l |
| Energy efficiency | 83 % | 81 % | 81 % | Recommended heat gradient (t output – t input) | 75 - 60 °C |
| Average concentration of $CO_2$ | 11,12 % | 9,62 % | 7,62 % | Min. chimney stack draught in the smoke flue neck | 12 Pa |
| Concentration of CO in combustion products at 13 % $O_2$ | 0,32 % | 0,24 % | 0,21 % | Heating capacity (middle heat losses) at 23 kW | about 414 $m^3$ |
| The amount of combustion air at nominal output | 55 $m^3/h$ | 60 $m^3/h$ | 70 $m^3/h$ | Range of outputs | 7,6 – 23 kW |
| Tested in compliance with ČSN EN 13229:2002/A2:2005 | | | CE | | |

# TECHNICAL INFORMATION

| **Suitable fuel:** | **Proper operation:** |
|---|---|
| As concerns suitable fuel to be employed, see the chapter **2.2 Fuel** in the General Manual of Operation. | As concerns the proper and safe operation of the fireplace stove, see the chapters **2. Description of the combustion process** and **5. Operating instructions** in the General Manual of Operation. |

## Vesuvio 15 with exchanger

**INSTRUCTIONS FOR THE CONTROL OF COMBUSTION PROCESS:**

| **Fuel** | **Output of the heating device** | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | **100%** | **33%** | **100%** | **33%** | **100%** | **33%** | **100%** | **33%** |
| | **Amount of fuel** | | **Primary air** | | **Secondary air** | | **Tertiary air** | |
| **Blockwood** | 5,5 kg/h | 1,8 kg/h | open 10% | open 5% | open 100% | open 50% | non-controllable | |
| **Ecological briquettes** | 5,2 kg/h | 1,7 kg/h | open 10% | open 5% | open 100% | open 50% | non-controllable | |
| **Coal briquettes** | 4,3 kg/h | 1,4 kg/h | open 20% | open 10% | open 100% | open 50% | non-controllable | |

| **TECHNICAL DATA:** | **Blockwood** | **Ecological briquettes** | **Coal briquettes** | | |
|---|---|---|---|---|---|
| Achieved heat output (100%) | 19,6 kW | 19,3 kW | 19,2 kW | Height | 1197 mm |
| Reduced heat output (33%) | 6,5 kW | 6,4 kW | 6,3 kW | Width | 769 mm |
| Output delivered by the stove body only | 5 kW | 4,6 kW | 8,6 kW | Depth | 639 mm |
| Output available for heating of water | 14,6 kW | 14,7 kW | 10,6 kW | Weight | 191 kg |
| Maximum stoking amount of the fuel | 5,5 kg/h | 5,2 kg/h | 4,3 kg/h | Diameter of the smoke flue | 180 mm |
| Average temperature of combustion products behind the smoke flue neck | | | | Maximum operating over-pressure of the exchanger | 0,2 MPa |
| Maximum mass flow of dry combustion products | 13,2 g/s | 17,2 g/s | 21 g/s | Water contents of the exchanger | 59 l |
| Energy efficiency | 83 % | 81 % | 81 % | Recommended heat gradient (t output – t input) | 75 - 60 °C |
| Average concentration of $CO_2$ | 11,27 % | 9,09 % | 6,92 % | Min. chimney stack draught in the smoke flue neck | 12 Pa |
| Concentration of CO in combustion products at 13 % $O_2$ | 0,32 % | 0,24 % | 0,21 % | Heating capacity (middle heat losses) at 19,6 kW | about 353 $m^3$ |
| The amount of combustion air at nominal output | 40 $m^3/h$ | 50 $m^3/h$ | 60 $m^3/h$ | Range of outputs | 6,3 – 19,6 kW |
| Tested in compliance with ČSN EN 13229:2002/A2:2005 | | | CE | | |



HAAS+SOHN

# Instructions for upper cleaning of exchanger

