

**Preparation System for De-ashing [Item No: KPT-AV]**

The trough for later accommodation of the de-ashing auger is covered by fireclay bricks. The ash is removed manually via the fire box door.

**De-ashing into ash bin, 240 litres** [Item No. KPT-A2-S]

**De-ashing into ash skip, 800 litres** [Item No. KPT-A8-S]

The PYRTEC's moving grate conveys the burnt-out ash into an ash trough recessed deep in the fireclay floor. From there the ash is extracted from the furnace by an auger made of heat-resistant steel. An additional ascending conveyor auger moves the ash into large-volume ash containers. The galvanised ash containers connect easily to the ash station by quick-action fasteners and move on rollers.

Function of the control system:

The level of the ash trough is monitored by a light barrier. When the level is exceeded, a certain amount of ash is carried off into the container. Continuous operation can be switched to for cleaning purposes when the furnace is shut down.

The following items come with the system:

- Fire box auger made of heat-resistant steel
- Ascending conveyor auger with container station
- Ash bin or ash skip
- Triggering system for the auger drives
- Infrared light barrier level monitoring system for ash in fire box

**Ash bin, 240 l, reserve** [Item No. EB-240]

**Ash skip, 800 l, reserve** [Item No. EC-800]

**Extension of ascending conveyor auger, per metre** [Item No. KPT-ASM]

**Extension of fire box auger, per metre** [Item No. KPT-AFM]

**Pneumatic cleaning system [Item No. KPT-W720-S]**  
**Pneumatic cleaning system [Item No. KPT-W1250-S]**

The complete pipe-type heat exchanger is cleaned off by periodic blasts of compressed air while the system is in regular operation. The process of cleaning itself takes place in blasting of the individual sections carried out one after another. The ash on the heat exchanger pipes is detached by very short but strong blasts of pressure.

The particles detached are conducted by the flow of gas to the de-duster, where most are eliminated.

The system is built into the furnace door.

The compressor should preferably be installed in a cool spot in the heating room.

Function of the control system:

The number of cleaning cycles within one unit of time (e.g. per hour) is adjusted according to the loading of the furnace. One single, complete cleaning cycle consists of one sequence of blasts over all the sections of the heat exchanger.

The following items come with the system:

- Nozzle element built into the furnace door, incl. connecting piece with heat dissipation plate
- Compressed air distributor with tank and valves; with heat-resistant hoses connected to nozzle element
- Compressor; model 282-50, special-purpose design for municipal uses  
 Delivery capacity of 182 l/min.; tank: 50-l; pressure: max. 10 bar; motor: 1.8 kW, 2850 RPM, 230V, incl. pressure controller, pressure switch and operating time limiter; plug and play; sound level of normal design: 79 dBA
- Compressed air hose up to max. of 4.0 m in length
- Valves wired tight to terminal strip
- Software component in the control system

To be carried out by customers:

- Provide a mains socket, 230V/ 16A

*Technical data:*

<b>PYRTEC</b>	<b>KPT-530</b>	<b>KPT-720</b>	<b>KPT-950</b>	<b>KPT-1250</b>
<b>[Item No.]</b>	<b>KPT-W720-S</b>		<b>KPT-1250-S</b>	
<i>Number of zones/valves</i>	10		12	
<i>Size of the valves</i>	6/4"		6/4"	
<i>Max. air consumption, full load [l/h]</i>	4400		5300	

**Compressor soundproofed, 64dBA [Item No. KT-WK]**

- Compressor with extra delivery rate and larger air tank for short operating time.
- Special design for municipal use with soundproof hood (model 362-100); delivery capacity: 202 l/min
- Tank: 100 l; pressure: max. 10 bar; motor: 2.2 kW, 1420 RPM, 230V; incl. pressure controller and pressure switch, plug and play; sound level: 64 dBA.

When this item is used, the compressor listed in the item "Pneumatic Cleaning System" is omitted.

**Reduced charge with compressed air provided by the customer [Item No. KT-WL]**

As a result, the compressor listed in the item "Pneumatic Cleaning System" is omitted. The compressor provided by the customer has to deliver at least the amount and quality of air specified and have an adjustable pressure controller as well as a protective device against hose rupture (e.g. operating time limiter).