

## Datasheet

For part no. and prices: see pricelist



### **VITOTRANS 200** Type WTD

For obtaining heating energy in conjunction with district steam heating systems  
Control through condensate backup or control on the steam side  
Heating tube bundle made from high-alloy stainless steel

## Specification

### Note

All diagrams in this document are schematic, illustrative examples.

### Heating output

Vitotrans 200	Part no.	3003473	3003474	3003475	3003476	3003477	3003478	
<b>CE designation</b>		See page 5						
<b>Heating output with DHW heating 70/90 °C on the secondary side and saturated steam on the primary side:</b>								
- Pressure upstream of appliance (without condensate cooling)	0.1 bar	kW	30	44	113	251	443	666
	0.2 bar	kW	37	53	135	300	530	800
	0.3 bar	kW	42	63	158	352	623	941
	0.4 bar	kW	47	70	176	392	691	1044
	0.5 bar	kW	52	78	195	436	768	1159
	0.6 bar	kW	57	86	214	479	844	1276
	0.8 bar	kW	66	98	245	551	970	1466
	<b>1.0 bar</b>	<b>kW</b>	<b>75</b>	<b>115</b>	<b>280</b>	<b>635</b>	<b>1100</b>	<b>1680</b>
	2.0 bar	kW	120	230	400	830	1300	2000
	3.0 bar	kW	120	230	460	880	1300	2000
<b>- Outputs at higher pressures on request.</b>								
- Pressure upstream of appliance (condensate temperature 80 °C)	1.0 bar	kW	64	105	174	384	640	1047

### Note

Output details for operation with alternative pressures and temperatures upon request.

## Specification

### Primary side

Permiss. saturated steam pressure	13 bar	10 bar	8 bar
- At permiss. operating temperature	200 °C	250 °C	300 °C

### Secondary side

- Permiss. operating pressure 10 bar
- Permiss. operating temperature 250 °C

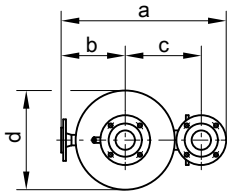
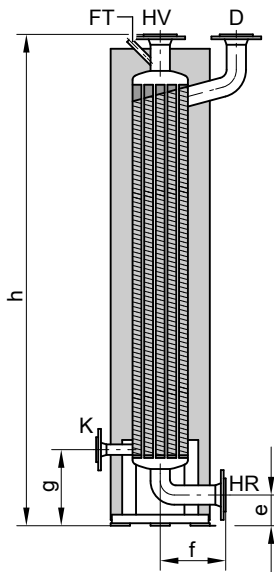
Vitotrans 200	Part no.	3003473	3003474	3003475	3003476	3003477	3003478
<b>Max. flow rate, secondary</b>	m <sup>3</sup> /h	5.2	10	20	38	56	86
<b>Dimensions</b>							
Depth d	∅ mm	290	326	366	397	451	526
Width a	mm	458	531	604	702	795	929
Height h	mm	1479	1523	1783	1992	2167	2352
<b>Weight</b>	kg	73	90	125	193	278	404
Heat exchanger with thermal insulation and mating flanges							
<b>Capacity</b>							
Primary side (around the pipes)	litres	11	20	30	50	82	116
Secondary side (inside the pipes)	litres	3	5.5	8	18	30	44
<b>Connections</b>							
Primary flow (steam)	PN/DN	40/40	16/50	16/65	16/100	16/125	16/150
Primary return (condensate)	PN/DN	40/20	40/32	40/40	16/50	16/65	16/80
Secondary side (heating water)	PN/DN	40/40	16/50	16/65	16/100	16/125	16/150

## Specification (cont.)

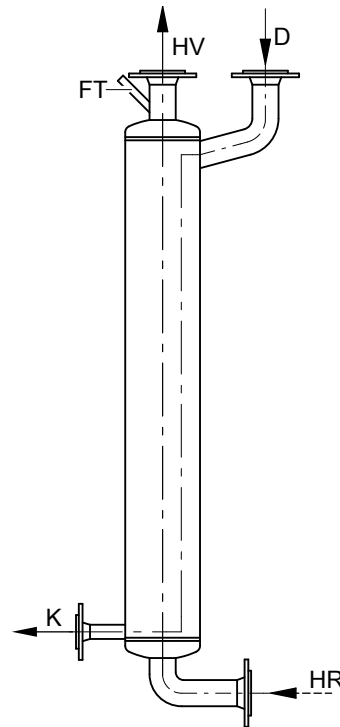
### Connections

#### Note

The heat exchanger must be operated vertically.



### Flow diagram



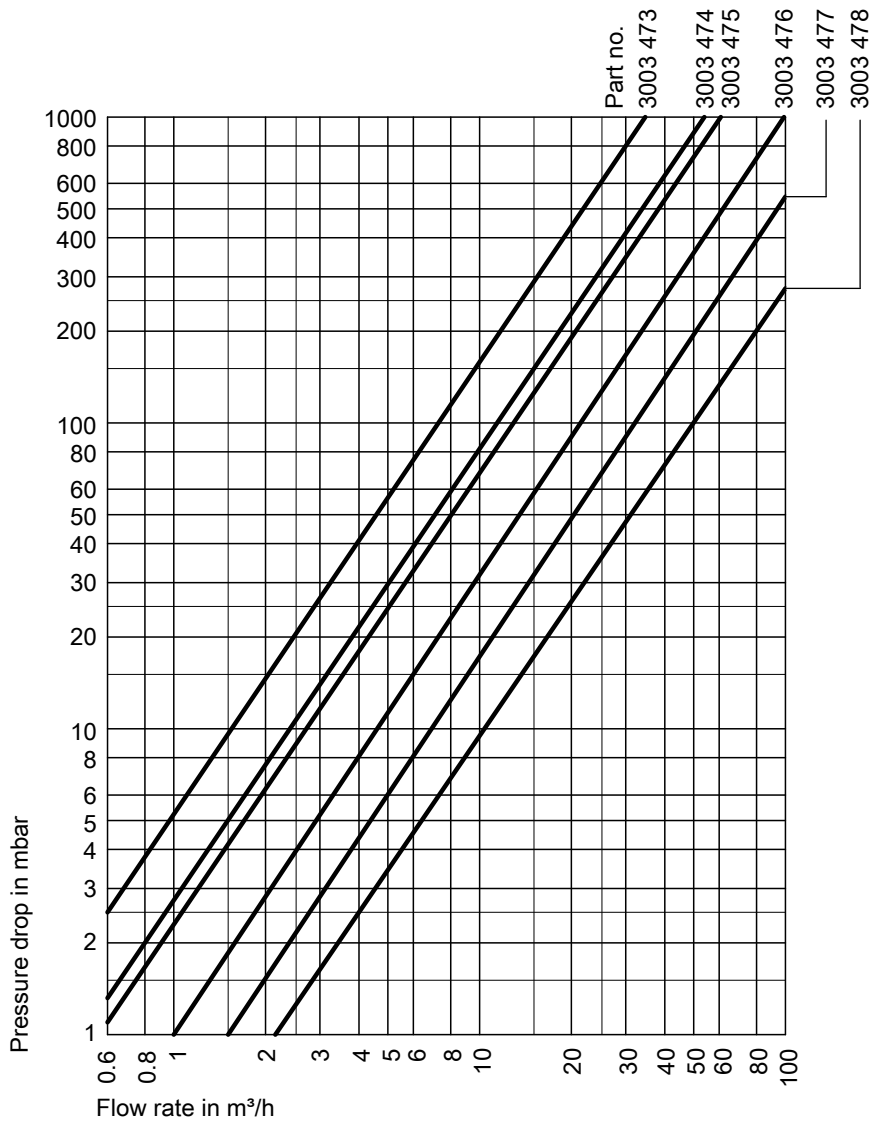
- D Primary flow (steam)
- FT Temperature sensor, connector for R ½ (for part no. 3003473 to 3003475) or female connection R 1 (for part no. 3003476 to 3003478)
- HR Secondary return (heating return)
- HV Secondary flow (heating flow)
- K Primary return (condensate)

### Dimensions

Part no.		3003473	3003474	3003475	3003476	3003477	3003478
a	mm	458	531	604	702	795	929
b	mm	190	215	238	263	284	333
c	mm	193	233	274	329	386	454
d	mm	290	326	366	397	451	526
e	mm	95	88	115	140	154	173
f	mm	199	220	245	276	308	353
g	mm	211	251	300	388	462	534
h	mm	1479	1523	1783	1992	2167	2352

## Specification (cont.)

### Secondary pressure drop (inside the pipes), heating water



## Delivered condition

Vitotrans 200 with fitted thermal insulation, colour: Vitosilver.  
With mating flanges, screws and gaskets for the primary and secondary connections.

## Design information

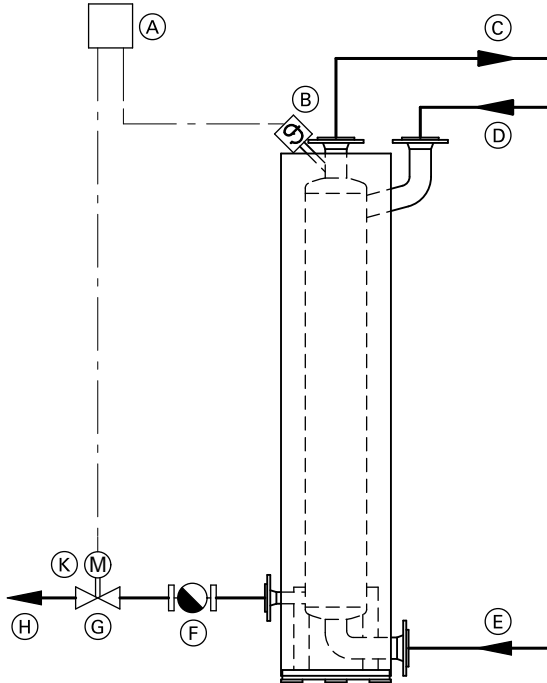
### Steam operation

For steam operation, the boiler water and the boiler feedwater must satisfy the VdTÜV guidelines [or local regulations] (for this, see also technical guide "Standard values for water quality").

## Installation schemes

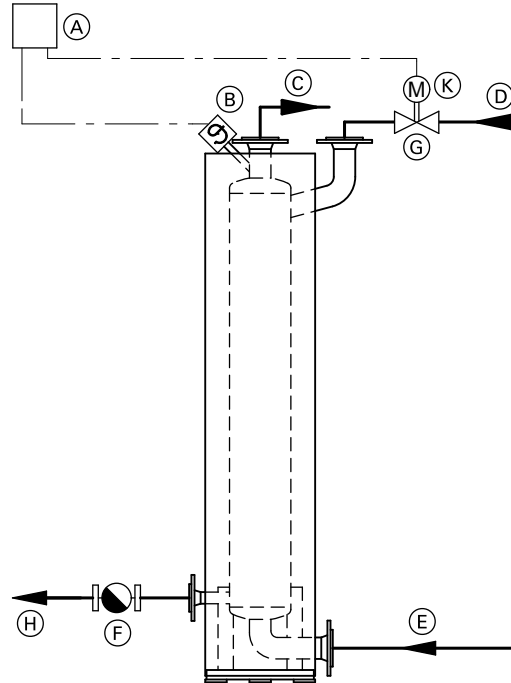
Control through condensate backup or control on the steam side.  
In addition, weather-compensated control is possible.

### Control through condensate backup



- (A) Central unit
- (B) Temperature sensor
- (C) Heating flow
- (D) Steam inlet
- (E) Heating return
- (F) Steam trap
- (G) Straight-through valve
- (H) Condensate
- (K) Valve servomotor

### Control on steam side



- (A) Central unit
- (B) Temperature sensor
- (C) Heating flow
- (D) Steam inlet
- (E) Heating return
- (F) Steam trap
- (G) Straight-through valve
- (H) Condensate
- (K) Valve servomotor

### Tested quality

**CE** CE designation complies with existing EC directives.

Subject to technical modifications.

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