

**Datasheet**

Part numbers and prices: see pricelist

File in:  
Vitotec folder, register 17**VITOTRANS 200** Type WTD

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

## Specification

### Output

Vitotrans 200	Part no.	3003 473	3003 474	3003 475	3003 476	3003 477	3003 478
<b>CE designation</b> in accordance with the Pressure Equipment Directive		CE-0035					
<b>Output</b> when heating water on the secondary side 70/90 °C and <b>saturated steam on the primary side</b> of ..... operating pressure upstream of the equipment and without the condensate cooling down	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 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	
Output at higher pressures on request							
<b>Output</b> when heating water on the secondary side 70/90 °C and <b>saturated steam on the primary side</b> of 1 bar operating pressure upstream of the equipment and condensate temperature 80 °C	kW	64	105	174	384	640	1047
Output at different pressures and temperatures on request							

## Specification

### Primary

permiss. operating pressure for saturated steam	13 bar	10 bar	8 bar
at permiss. operating temperature	200 °C	250 °C	300 °C

### Secondary

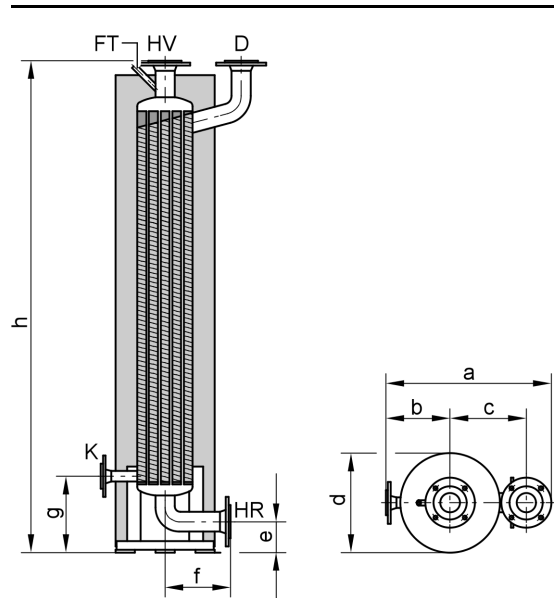
permiss. operating pressure 10 bar

Vitotrans 200	Part no.	3003 473	3003 474	3003 475	3003 476	3003 477	3003 478
<b>Max. flow rate</b>	m <sup>3</sup> /h	5.2	10	20	38	56	86
secondary							
<b>Dimensions</b>							
Length d (∅)	mm	290	326	366	397	451	526
Width a	mm	458	531	605	702	795	930
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>Content</b>							
primary (around the pipes)	litres	11	20	30	50	82	116
secondary (inside the pipes)	litres	3	5.5	8	18	30	44
<b>Connections</b>							
primary flow (steam)	PN 16 DN	40	50	65	100	125	150
primary return (condensate)	PN 16 DN	20	32	40	50	65	80
secondary (heating water)	PN 16 DN	40	50	65	100	125	150

## Specification (cont.)

### Connections

Install this heat exchanger vertically.



HR Secondary return (heating water)  
 HV Secondary flow (heating water)  
 K Primary return (condensate)

D Primary flow (steam)  
 FT Connector for R $\frac{1}{2}$ " (for part no. 3003 473 to 3003 475) or  
 fem. connection R1" (for part no. 3003 476 to 3003 478)

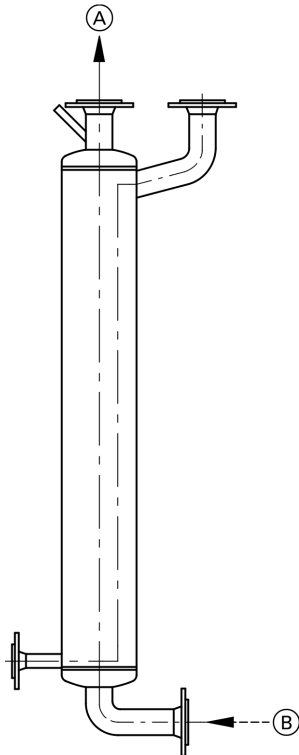
### Dimensions

Part no.		3003 473	3003 474	3003 475	3003 476	3003 477	3003 478
a	mm	458	531	605	702	795	930
b	mm	190	215	238	263	284	333
c	mm	193	234	274	329	386	454
d	mm	290	326	366	397	451	526
e	mm	95	88	115	140	155	173
f	mm	199	220	245	276	309	353
g	mm	211	252	300	386	462	534
h	mm	1479	1523	1783	1992	2167	2352

## Specification (cont.)

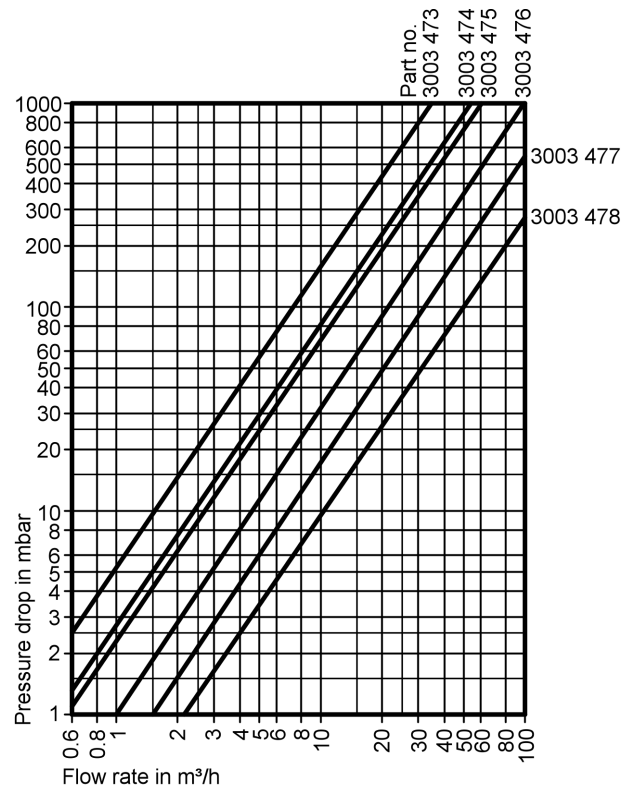
### Pressure drop

secondary (inside the pipes), heating water



Flow diagram

- (A) Heating flow
- (B) Heating return



## As 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

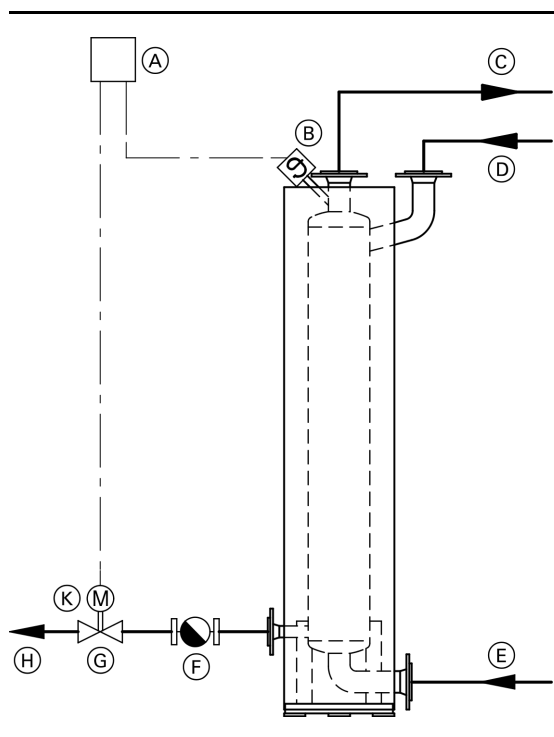
For steam operation, the boiler water and the boiler feed water must satisfy the guidelines of VdTÜV [or local regulations] (see also the technical guide "Standard values for water quality").

## Installation diagrams

Regulation through condensate backup or control of the steam side.  
In addition, weather-compensated control may be also be applied.

## Installation diagrams (cont.)

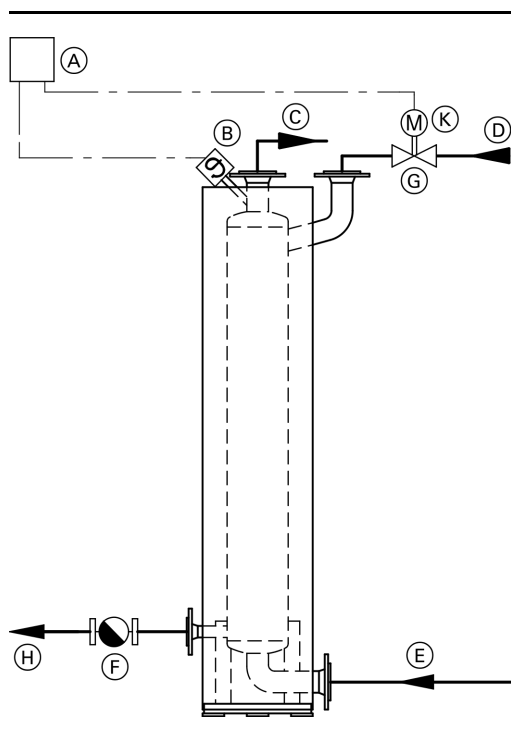
### Control through condensate backup



- Ⓒ Heating flow
- Ⓓ Steam inlet
- Ⓔ Heating return
- Ⓕ Condensate diverter
- Ⓖ Straight-through valve
- Ⓗ Condensate
- Ⓚ Valve servomotor

- Ⓐ Central equipment
- Ⓑ Temperature sensor

### Control of the steam side



- Ⓒ Heating flow
- Ⓓ Steam inlet
- Ⓔ Heating return
- Ⓕ Condensate diverter
- Ⓖ Straight-through valve
- Ⓗ Condensate
- Ⓚ Valve servomotor

- Ⓐ Central equipment
- Ⓑ Temperature sensor

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