

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 are schematic, illustrative examples.

Heating output

Vitotrans 200	Part no.		3003 473	3003 474	3003 475	3003 476	3003 477	3003 478
CE designation			see page 5					
Heating output with DHW heating 70/90 °C on the secondary side and saturated steam on the primary side:								
– Pressure upstream of appliance	0.1 bar	kW	30	44	113	251	443	666
(without condensate cooling)	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
	1.0 bar	kW	75	115	280	635	1100	1680
	2.0 bar	kW	120	230	400	830	1300	2000
	3.0 bar	kW	120	230	460	880	1300	2000
– Outputs at higher pressures on request.								
– Pressure upstream of appliance	1.0 bar	kW	64	105	174	384	640	1047
(condensate temperature 80 °C)								

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

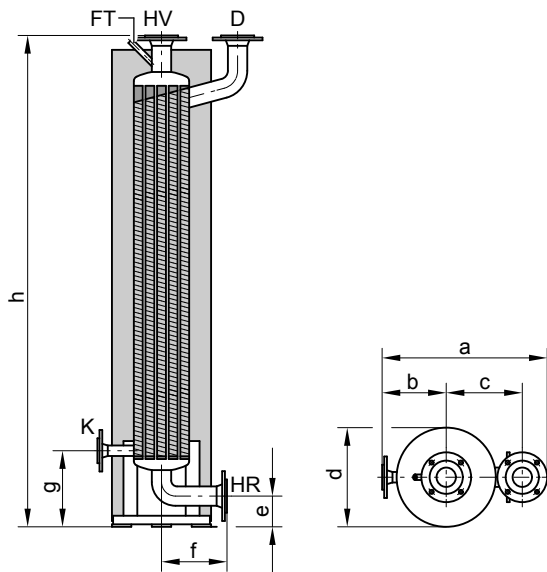
Vitotrans 200	Part no.	3003 473	3003 474	3003 475	3003 476	3003 477	3003 478
Max. flow rate , secondary	m ³ /h	5.2	10	20	38	56	86
Dimensions							
Length d	Ømm	290	326	366	397	451	526
Width a	mm	458	531	605	702	795	930
Height h	mm	1479	1523	1783	1992	2167	2352
Weight	kg	73	90	125	193	278	404
Heat exchanger with thermal insulation and mating flanges							
Capacity							
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
Connections							
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 side (heating water)	PN 16 DN	40	50	65	100	125	150

Specification (cont.)

Connections

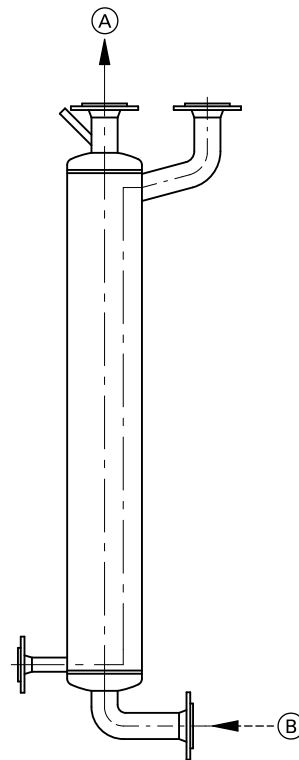
Note

The heat exchanger must be fitted vertically.



- D Primary flow (steam)
- FT Connector for R $\frac{1}{2}$ (for part no. 3003 473 to 3003 475) or female connection R1 (for part no. 3003 476 to 3003 478)
- HR Secondary return (heating water)
- HV Secondary flow (heating water)
- K Primary return (condensate)

Secondary pressure drop (inside the pipes), heating water



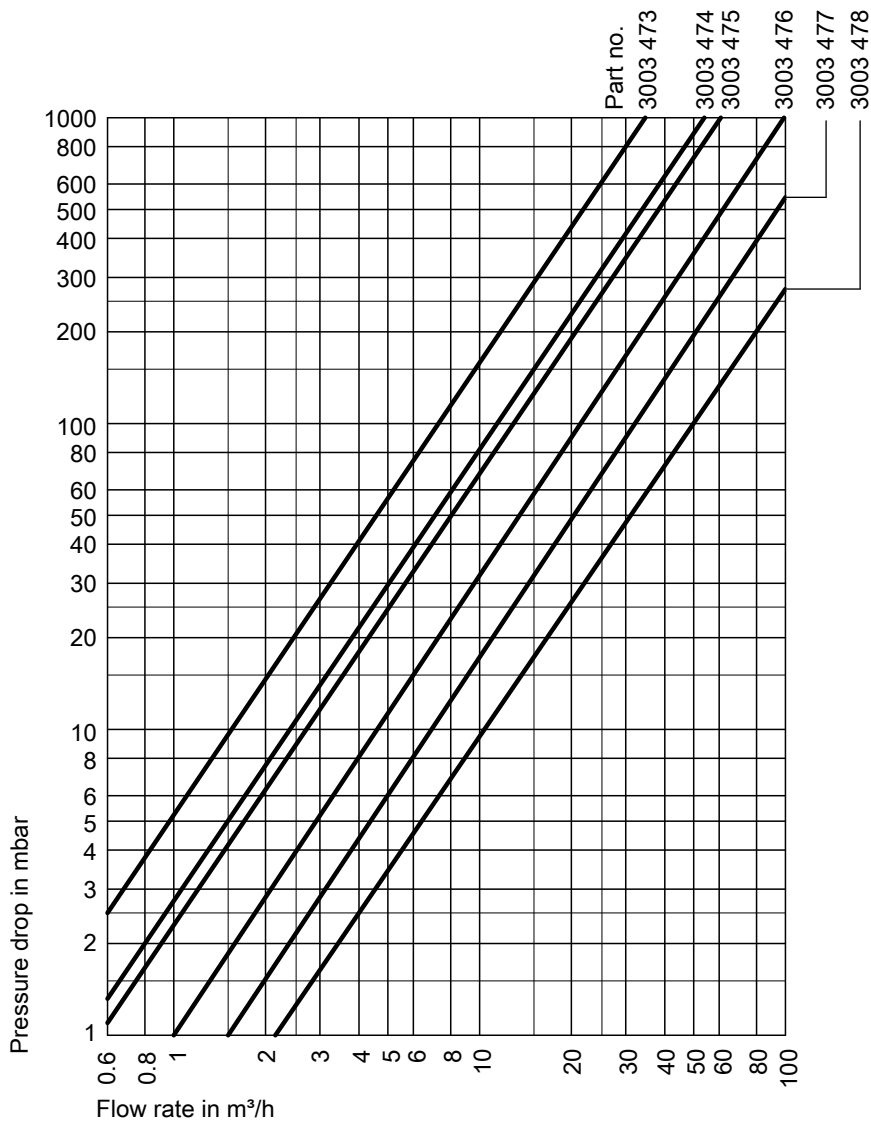
Flow diagram

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

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.)



Delivered condition

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

Design information

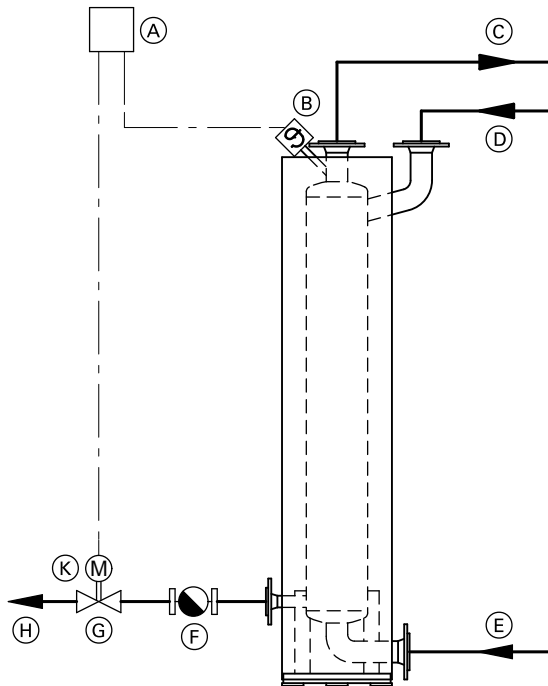
Steam operation

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

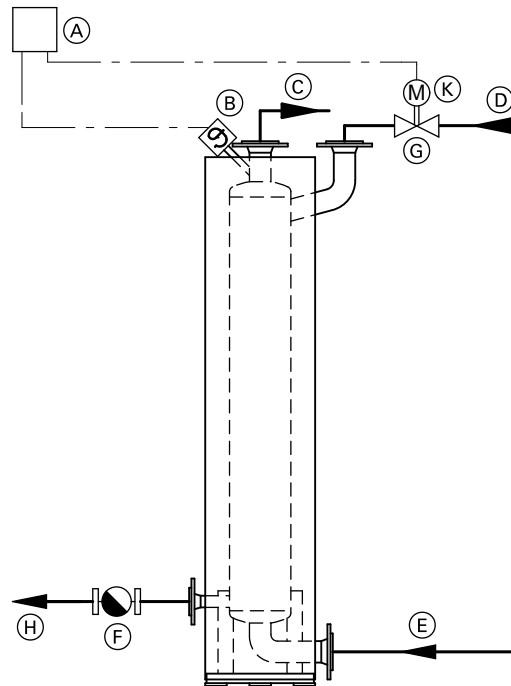
Control through condensate backup or control on the steam side.
In addition, weather-compensated control is possible.

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 the 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

 The CE designation is compliant with current EC Directives.

Subject to technical modifications.

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