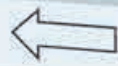




PGV
Rectangular duct heaters
for hot water



PGV

Rectangular duct heaters for hot water

The PGV with rectangular duct connection uses hot water as the energy carrier and is used for heating the ventilation air in a ventilation system. The PGV can also be used as the heater in a supply air unit. For controlling the room or supply air temperature, the duct heater is supplemented with regulator, sensors, actuators, valves and anti-freeze protection.

- 18 standard sizes
- Casing of Aluzinc-coated sheet steel
- Tappings for drainage and venting
- Coil with copper tubes and aluminium fins
- Tapped connection for fitting a sensor in a pocket for anti-freeze protection
- Air tightness class C to EN 15727

Design

The casing is made of Aluzinc-coated sheet steel. The coil has copper tubes and aluminium fins. The duct heater is also equipped with tappings for drainage and venting, and a tapped connection for fitting a immersion sensor in a pocket for anti-freeze protection.

Operating data

Max. operating temperature: +150°C
 Max. operating pressure: 1,0 MPa (10 bar)
 The coils are tested for leakage.

Capacity

Examples of capacity for each size are given on pages 4 to 12. You can also do your own calculations using our web-based VEAB Select calculation program (www.veab.com), or get in touch with our sales technicians for assistance.

Installation

The PGV can be installed in a horizontal or vertical duct, and the air flow can be in either direction.

Control

See pages 14 to 17 for a list of regulators, sensors, valves and actuators.

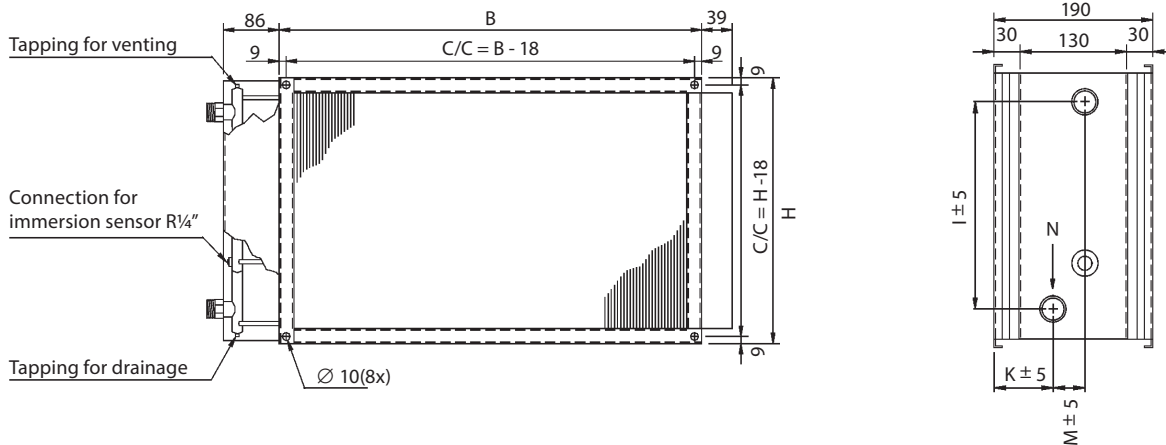


Air tightness class C

The PGV duct heater conforms to air tightness class C, which ensures that the heated air will reach its destination and will not leak out of the ventilation system – which saves energy and money.

Product range overview and dimensions

Type	B mm	H mm	I mm	K mm	M mm	N conn. R	Coil inside volume l
PGV 400x200-2-2,5	438	238	150	63	43	3/4"	0,6
PGV 400x200-4-2,5	438	238	150	63	65	3/4"	1,0
PGV 500x250-2-2,5	538	288	200	63	43	3/4"	0,9
PGV 500x250-4-2,5	538	288	200	63	65	3/4"	1,6
PGV 500x300-2-2,5	538	338	250	63	43	3/4"	1,0
PGV 500x300-4-2,5	538	338	250	63	65	1"	2,0
PGV 600x300-2-2,5	638	338	250	63	43	3/4"	1,2
PGV 600x300-4-2,5	638	338	250	63	65	1"	2,4
PGV 600x350-2-2,5	638	388	300	63	43	3/4"	1,4
PGV 600x350-4-2,5	638	388	300	63	65	1"	2,8
PGV 700x400-2-2,5	738	438	350	61	47	1"	2,5
PGV 700x400-3-2,5	738	438	350	66	58	1"	3,6
PGV 800x500-2-2,5	838	538	450	61	47	1"	3,6
PGV 800x500-3-2,5	838	538	450	66	58	1"	5,1
PGV 1000x500-2-2,5	1038	538	450	61	47	1"	4,3
PGV 1000x500-3-2,5	1038	538	450	66	58	1"	6,2
PGV 1200x600-2-2,5	1238	638	545	61	47	1"	6,0
PGV 1200x600-3-2,5	1238	638	545	66	58	1 1/4"	8,9



Project design/ordering

Descriptive text for - PGV

VEAB type PGV duct heater with casing of Aluzinc-coated sheet steel, coil with copper tubes and aluminium fins. The duct heaters conform to air tightness class C to EN 15727. The heater is controlled by an external regulator, sensors, valves and actuators, which must be ordered separately.

Type designation PGV 400x200 - 2 - 2.5

(example)

Size designation

Number of tube rows

Fin pitch, mm

Specify the following for project ordering:

- Air flow rate: - m³/h
- Inlet air temperature: - °C
- Outlet air temp. or required output: - °C or kW
- Duct size: - mm
- Inlet water temp.: - °C
- Outlet water temp. or water flow: - °C or l/sec
- Anti-freeze agent: - type / %

Capacity PGV 400×200-2-2,5

Water temp.			in/out 80°C/60°C				in/out 60°C/40°C				in/out 55°C/45°C			
Air flow	Air press. drop	Inlet air temp.	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop
m ³ /h	Pa	°C	°C	kW	l/s	kPa	°C	kW	l/s	kPa	°C	kW	l/s	kPa
576	22	-5	25.4	6.4	0.08	1.9	15.6	4.4	0.05	1.0	17.6	4.8	0.12	4.2
576	22	0	28.4	5.9	0.07	1.7	18.4	3.8	0.05	0.8	20.6	4.3	0.10	3.4
576	21	5	31.4	5.4	0.07	1.4	21.2	3.3	0.04	0.6	23.5	3.8	0.09	2.7
576	21	10	34.3	4.9	0.06	1.2	23.8	2.8	0.03	0.5	26.3	3.3	0.08	2.1
576	21	15	37.2	4.4	0.05	1.0	26.1	2.2	0.03	0.3	29.1	2.8	0.07	1.6
864	44	-5	21.1	8.3	0.10	3.1	12.7	5.6	0.07	1.6	14.5	6.2	0.15	6.7
864	43	0	24.4	7.6	0.09	2.6	15.9	5.0	0.06	1.3	17.8	5.5	0.13	5.5
864	42	5	27.7	6.9	0.09	2.2	19.0	4.3	0.05	1.0	20.9	4.9	0.12	4.3
864	42	10	30.9	6.3	0.08	1.8	22.0	3.6	0.04	0.7	24.1	4.2	0.10	3.4
864	41	15	34.1	5.6	0.07	1.5	24.9	2.9	0.04	0.5	27.2	3.6	0.09	2.5
1152	70	-5	18.3	9.9	0.12	4.2	10.8	6.7	0.08	2.2	12.4	7.4	0.18	9.2
1152	69	0	21.8	9.0	0.11	3.6	14.2	5.9	0.07	1.7	15.8	6.6	0.16	7.5
1152	69	5	25.2	8.2	0.10	3.0	17.5	5.1	0.06	1.3	19.2	5.8	0.14	6.0
1152	68	10	28.6	7.5	0.09	2.5	20.7	4.3	0.05	1.0	22.6	5.0	0.12	4.6
1152	67	15	32.0	6.7	0.08	2.1	23.9	3.5	0.04	0.7	25.9	4.3	0.10	3.4

Capacity PGV 400×200-4-2,5

Water temp.			in/out 80°C/60°C				in/out 60°C/40°C				in/out 55°C/45°C			
Air flow	Air press. drop	Inlet air temp.	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop
m ³ /h	Pa	°C	°C	kW	l/s	kPa	°C	kW	l/s	kPa	°C	kW	l/s	kPa
576	46	-5	42.6	10.1	0.12	1.3	26.6	6.7	0.08	0.7	30.3	7.5	0.18	2.9
576	45	0	44.4	9.2	0.11	1.1	27.9	5.8	0.07	0.5	32.0	6.7	0.16	2.3
576	44	5	46.1	8.4	0.10	0.9	28.7	4.8	0.06	0.4	33.7	5.8	0.14	1.8
576	43	10	47.8	7.6	0.09	0.8	28.0	3.6	0.04	0.2	35.2	5.1	0.12	1.4
576	42	15	49.3	6.8	0.08	0.6	29.4	2.8	0.03	0.1	36.7	4.3	0.10	1.0
864	90	-5	37.3	13.4	0.16	2.2	23.3	9.0	0.11	1.1	26.5	10.0	0.24	4.9
864	88	0	39.5	12.3	0.15	1.9	25.1	7.8	0.10	0.9	28.6	8.9	0.22	3.9
864	87	5	41.6	11.2	0.14	1.6	26.8	6.7	0.08	0.6	30.6	7.8	0.19	3.1
864	85	10	43.6	10.1	0.12	1.3	28.2	5.5	0.07	0.5	32.5	6.8	0.16	2.4
864	84	15	45.6	9.0	0.11	1.1	28.3	3.9	0.05	0.3	34.4	5.7	0.14	1.7
1152	145	-5	33.5	16.3	0.20	3.2	20.8	10.9	0.13	1.6	23.7	12.2	0.30	7.0
1152	142	0	35.9	14.9	0.18	2.7	23.0	9.6	0.12	1.2	26.1	10.8	0.26	5.7
1152	140	5	38.3	13.6	0.17	2.3	25.1	8.2	0.10	0.9	28.3	9.5	0.23	4.5
1152	138	10	40.6	12.3	0.15	1.9	26.9	6.8	0.08	0.7	30.6	8.2	0.20	3.4
1152	136	15	42.8	10.9	0.13	1.5	28.4	5.3	0.06	0.4	32.7	7.0	0.17	2.5

Capacity PGV 500×250-2-2,5

Water temp.			in/out 80°C/60°C				in/out 60°C/40°C				in/out 55°C/45°C			
Air flow	Air press. drop	Inlet air temp.	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop
m ³ /h	Pa	°C	°C	kW	l/s	kPa	°C	kW	l/s	kPa	°C	kW	l/s	kPa
900	22	-5	26.7	10.5	0.13	5.9	17.3	7.4	0.09	3.3	18.5	7.8	0.19	12.8
900	22	0	29.8	9.7	0.12	5.1	20.2	6.5	0.08	2.7	21.4	7.0	0.17	10.5
900	22	5	32.7	8.8	0.11	4.3	23.0	5.7	0.07	2.1	24.4	6.2	0.15	8.4
900	21	10	35.7	8.0	0.10	3.7	25.8	4.9	0.06	1.6	27.2	5.4	0.13	6.6
900	21	15	38.6	7.2	0.09	3.0	28.5	4.2	0.05	1.2	30.0	4.6	0.11	5.0
1350	44	-5	22.3	13.6	0.17	9.4	14.1	9.5	0.12	5.2	15.3	10.1	0.24	20.4
1350	43	0	25.6	12.5	0.15	8.1	17.3	8.4	0.10	4.2	18.5	9.0	0.22	16.7
1350	42	5	28.9	11.4	0.14	6.9	20.5	7.4	0.09	3.3	21.7	8.0	0.19	13.4
1350	42	10	32.1	10.4	0.13	5.8	23.6	6.4	0.08	2.5	24.8	7.0	0.17	10.5
1350	41	15	35.3	9.3	0.11	4.8	26.6	5.4	0.07	1.9	28.0	6.0	0.14	7.9
1800	71	-5	19.4	16.1	0.20	12.9	12.0	11.3	0.14	7.1	13.1	12.0	0.29	28.1
1800	70	0	22.8	14.8	0.18	11.1	15.4	10.0	0.12	5.7	16.5	10.7	0.26	23.0
1800	69	5	26.3	13.6	0.17	9.4	18.8	8.8	0.11	4.5	19.9	9.5	0.23	18.4
1800	68	10	29.7	12.3	0.15	7.9	22.1	7.6	0.09	3.5	23.2	8.3	0.20	14.4
1800	67	15	33.1	11.1	0.14	6.6	25.4	6.4	0.08	2.5	26.6	7.1	0.17	10.9

PGV

Capacity PGV 500×250-4-2,5

Water temp.			in/out 80°C/60°C				in/out 60°C/40°C				in/out 55°C/45°C			
Air flow	Air press. drop	Inlet air temp.	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop
m ³ /h	Pa	°C	°C	kW	l/s	kPa	°C	kW	l/s	kPa	°C	kW	l/s	kPa
900	46	-5	45.6	16.7	0.21	5.1	30.8	11.8	0.14	2.8	32.2	12.3	0.30	10.8
900	45	0	47.4	15.4	0.19	4.4	32.5	10.5	0.13	2.3	33.9	11.0	0.27	8.8
900	44	5	49.2	14.1	0.17	3.7	34.0	9.3	0.11	1.8	35.6	9.8	0.24	7.1
900	44	10	50.9	12.8	0.16	3.1	35.5	8.0	0.10	1.4	37.2	8.5	0.21	5.5
900	43	15	52.6	11.5	0.14	2.6	36.8	6.7	0.08	1.0	38.8	7.3	0.18	4.2
1350	90	-5	40.0	22.3	0.27	8.6	26.8	15.8	0.19	4.7	28.2	16.5	0.40	18.4
1350	89	0	42.2	20.6	0.25	7.4	28.8	14.0	0.17	3.8	30.3	14.7	0.36	15.0
1350	87	5	44.3	18.8	0.23	6.3	30.8	12.3	0.15	3.0	32.3	13.1	0.32	12.0
1350	86	10	46.4	17.1	0.21	5.3	32.6	10.6	0.13	2.3	34.3	11.4	0.28	9.4
1350	84	15	48.4	15.4	0.19	4.3	34.4	8.9	0.11	1.7	36.2	9.8	0.24	7.1
1800	145	-5	36.0	27.2	0.33	12.3	23.9	19.1	0.23	6.7	25.3	20.1	0.49	26.4
1800	143	0	38.5	25.0	0.31	10.5	26.2	17.0	0.21	5.4	27.7	18.0	0.44	21.6
1800	141	5	40.9	22.9	0.28	9.0	28.4	14.9	0.18	4.3	29.9	15.9	0.39	17.2
1800	139	10	43.2	20.7	0.25	7.5	30.6	12.9	0.16	3.3	32.2	13.9	0.34	13.5
1800	136	15	45.4	18.7	0.23	6.2	32.7	10.8	0.13	2.4	34.4	11.9	0.29	10.2

Capacity PGV 500×300-2-2,5

Water temp.			in/out 80°C/60°C				in/out 60°C/40°C				in/out 55°C/45°C			
Air flow	Air press. drop	Inlet air temp.	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop
m ³ /h	Pa	°C	°C	kW	l/s	kPa	°C	kW	l/s	kPa	°C	kW	l/s	kPa
1080	22	-5	25,8	12,2	0,15	3,0	16,1	8,4	0,10	1,6	17,9	9,1	0,22	6,5
1080	22	0	28,8	11,2	0,14	2,6	19,0	7,4	0,09	1,3	20,9	8,1	0,20	5,3
1080	22	5	31,8	10,3	0,13	2,2	21,8	6,4	0,08	1,0	23,8	7,2	0,17	4,2
1080	21	10	34,7	9,3	0,11	1,8	24,5	5,4	0,07	0,7	26,6	6,2	0,15	3,3
1080	21	15	37,6	8,3	0,10	1,5	27,0	4,4	0,05	0,5	29,4	5,3	0,13	2,4
1620	44	-5	21,5	15,8	0,19	4,8	13,1	10,8	0,13	2,5	14,7	11,8	0,29	10,4
1620	43	0	24,8	14,5	0,18	4,1	16,3	9,5	0,12	2,0	18,0	10,5	0,25	8,5
1620	42	5	28,0	13,2	0,16	3,4	19,5	8,3	0,10	1,5	21,2	9,3	0,22	6,7
1620	42	10	31,3	12,0	0,15	2,9	22,5	7,1	0,09	1,2	24,3	8,1	0,20	5,2
1620	41	15	34,4	10,7	0,13	2,4	25,5	5,8	0,07	0,8	27,4	6,9	0,17	3,9
2160	70	-5	18,6	18,7	0,23	6,5	11,2	12,8	0,16	3,4	12,6	14,0	0,34	14,4
2160	70	0	22,1	17,2	0,21	5,6	14,6	11,3	0,14	2,7	16,1	12,5	0,30	11,7
2160	69	5	25,5	15,7	0,19	4,7	17,9	9,9	0,12	2,1	19,4	11,0	0,27	9,3
2160	68	10	28,9	14,2	0,17	3,9	21,2	8,4	0,10	1,6	22,8	9,6	0,23	7,2
2160	67	15	32,3	12,8	0,16	3,2	24,4	6,9	0,08	1,1	26,1	8,2	0,20	5,3

Capacity PGV 500×300-4-2,5

Water temp.			in/out 80°C/60°C				in/out 60°C/40°C				in/out 55°C/45°C			
Air flow	Air press. drop	Inlet air temp.	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop
m ³ /h	Pa	°C	°C	kW	l/s	kPa	°C	kW	l/s	kPa	°C	kW	l/s	kPa
1080	46	-5	45,7	20,1	0,25	6,0	30,9	14,3	0,17	3,3	32,2	14,8	0,36	12,8
1080	45	0	47,5	18,5	0,23	5,1	32,6	12,7	0,15	2,7	34,0	13,2	0,32	10,4
1080	44	5	49,3	16,9	0,21	4,4	34,2	11,2	0,14	2,1	35,7	11,7	0,28	8,4
1080	44	10	51,0	15,4	0,19	3,7	35,7	9,6	0,12	1,6	37,3	10,2	0,25	6,5
1080	43	15	52,7	13,9	0,17	3,0	37,0	8,1	0,10	1,2	38,9	8,8	0,21	4,9
1620	90	-5	40,1	26,9	0,33	10,2	26,9	19,0	0,23	5,6	28,3	19,8	0,48	21,8
1620	89	0	42,3	24,7	0,30	8,7	28,9	16,9	0,21	4,5	30,3	17,7	0,43	17,8
1620	87	5	44,4	22,6	0,28	7,4	30,9	14,9	0,18	3,6	32,4	15,7	0,38	14,2
1620	86	10	46,5	20,6	0,25	6,2	32,8	12,8	0,16	2,8	34,4	13,7	0,33	11,1
1620	84	15	48,5	18,5	0,23	5,1	34,5	10,8	0,13	2,0	36,3	11,8	0,29	8,4
2160	146	-5	36,1	32,7	0,40	14,6	24,0	23,0	0,28	8,0	25,4	24,1	0,58	31,3
2160	143	0	38,6	30,0	0,37	12,5	26,3	20,5	0,25	6,5	27,7	21,6	0,52	25,6
2160	141	5	40,9	27,5	0,34	10,6	28,5	18,0	0,22	5,1	30,0	19,1	0,46	20,4
2160	139	10	43,3	25,0	0,31	8,9	30,7	15,5	0,19	3,9	32,2	16,7	0,41	15,9
2160	136	15	45,5	22,5	0,28	7,3	32,8	13,1	0,16	2,9	34,4	14,3	0,35	12,0

Capacity PGV 600×300-2-2,5

Water temp.			in/out 80°C/60°C				in/out 60°C/40°C				in/out 55°C/45°C			
Air flow	Air press. drop	Inlet air temp.	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop
m ³ /h	Pa	°C	°C	kW	l/s	kPa	°C	kW	l/s	kPa	°C	kW	l/s	kPa
1296	22	-5	26,4	14,9	0,18	3,6	16,8	10,4	0,13	2,0	18,3	11,1	0,27	7,8
1296	22	0	29,4	13,7	0,17	3,1	19,7	9,2	0,11	1,6	21,2	9,9	0,24	6,4
1296	22	5	32,4	12,6	0,15	2,6	22,5	8,0	0,10	1,3	24,1	8,8	0,21	5,1
1296	21	10	35,3	11,4	0,14	2,2	25,3	6,9	0,08	1,0	27,0	7,6	0,19	4,0
1296	21	15	38,2	10,3	0,13	1,8	28,0	5,7	0,07	0,7	29,8	6,5	0,16	3,0
1944	44	-5	22,0	19,3	0,24	5,7	13,7	13,4	0,16	3,1	15,1	14,3	0,35	12,4
1944	43	0	25,3	17,7	0,22	4,9	16,9	11,9	0,14	2,5	18,3	12,8	0,31	10,2
1944	42	5	28,5	16,2	0,20	4,2	20,1	10,4	0,13	2,0	21,5	11,3	0,28	8,1
1944	42	10	31,8	14,7	0,18	3,5	23,2	8,9	0,11	1,5	24,6	9,9	0,24	6,3
1944	41	15	34,9	13,2	0,16	2,9	26,2	7,4	0,09	1,1	27,7	8,4	0,20	4,8
2592	71	-5	19,0	22,9	0,28	7,8	11,7	15,9	0,19	4,2	12,9	17,1	0,41	17,1
2592	70	0	22,5	21,1	0,26	6,7	15,1	14,1	0,17	3,4	16,3	15,3	0,37	14,0
2592	69	5	26,0	19,3	0,24	5,7	18,4	12,3	0,15	2,7	19,7	13,5	0,33	11,2
2592	68	10	29,4	17,5	0,21	4,8	21,7	10,6	0,13	2,0	23,1	11,8	0,29	8,7
2592	67	15	32,8	15,7	0,19	3,9	25,0	8,8	0,11	1,5	26,4	10,1	0,24	6,5

PGV

Capacity PGV 600×300-4-2,5

Water temp.			in/out 80°C/60°C				in/out 60°C/40°C				in/out 55°C/45°C			
Air flow	Air press. drop	Inlet air temp.	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop
m ³ /h	Pa	°C	°C	kW	l/s	kPa	°C	kW	l/s	kPa	°C	kW	l/s	kPa
1296	45	-5	46,6	24,1	0,30	6,5	31,7	17,5	0,21	3,9	32,6	17,9	0,43	14,2
1296	45	0	48,4	22,2	0,27	5,6	33,3	15,6	0,19	3,2	34,4	16,1	0,39	11,7
1296	44	5	50,2	20,3	0,25	4,8	34,9	13,7	0,17	2,5	36,0	14,2	0,35	9,4
1296	43	10	51,9	18,5	0,23	4,1	36,5	11,9	0,14	2,0	37,7	12,5	0,30	7,4
1296	42	15	53,5	16,7	0,20	3,4	37,9	10,1	0,12	1,5	39,2	10,7	0,26	5,6
1944	90	-5	40,7	32,6	0,40	11,3	27,5	23,2	0,28	6,4	28,6	24,0	0,58	24,2
1944	89	0	42,8	30,1	0,37	9,8	29,6	20,7	0,25	5,2	30,7	21,5	0,52	19,8
1944	87	5	45,0	27,5	0,34	8,3	31,6	18,3	0,22	4,2	32,7	19,1	0,46	15,9
1944	86	10	47,1	25,0	0,31	7,0	33,5	15,9	0,19	3,2	34,7	16,7	0,40	12,5
1944	84	15	49,1	22,6	0,28	5,8	35,3	13,5	0,16	2,4	36,6	14,3	0,35	9,5
2592	146	-5	36,7	39,7	0,49	16,2	24,6	28,2	0,34	9,1	25,7	29,3	0,71	34,6
2592	143	0	39,1	36,5	0,45	13,9	26,9	25,2	0,31	7,4	28,0	26,2	0,64	28,4
2592	141	5	41,5	33,5	0,41	11,9	29,2	22,2	0,27	5,9	30,3	23,2	0,56	22,8
2592	139	10	43,8	30,4	0,37	10,0	31,3	19,2	0,23	4,6	32,6	20,3	0,49	17,9
2592	137	15	46,0	27,5	0,34	8,3	33,4	16,3	0,20	3,4	34,8	17,5	0,42	13,6

Capacity PGV 600×350-2-2,5

Water temp.			in/out 80°C/60°C				in/out 60°C/40°C				in/out 55°C/45°C			
Air flow	Air press. drop	Inlet air temp.	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop
m ³ /h	Pa	°C	°C	kW	l/s	kPa	°C	kW	l/s	kPa	°C	kW	l/s	kPa
1512	22	-5	26.3	17.4	0.21	4.7	16.7	12.1	0.15	2.5	18.2	12.9	0.31	10.2
1512	22	0	29.3	16.0	0.20	4.0	19.6	10.7	0.13	2.0	21.2	11.5	0.28	8.3
1512	22	5	32.3	14.6	0.18	3.4	22.4	9.3	0.11	1.6	24.1	10.2	0.25	6.7
1512	21	10	35.2	13.3	0.16	2.9	25.2	8.0	0.10	1.2	26.9	8.9	0.22	5.2
1512	21	15	38.1	11.9	0.15	2.4	27.8	6.6	0.08	0.9	29.7	7.6	0.18	3.9
2268	44	-5	21.9	22.4	0.27	7.5	13.6	15.5	0.19	4.0	15.0	16.7	0.40	16.5
2268	43	0	25.2	20.6	0.25	6.5	16.8	13.8	0.17	3.2	18.2	14.9	0.36	13.4
2268	42	5	28.5	18.8	0.23	5.5	20.0	12.0	0.15	2.5	21.4	13.2	0.32	10.7
2268	42	10	31.7	17.1	0.21	4.6	23.1	10.3	0.13	1.9	24.6	11.5	0.28	8.3
2268	41	15	34.9	15.4	0.19	3.8	26.1	8.6	0.10	1.4	27.7	9.8	0.24	6.2
3024	71	-5	19.0	26.7	0.33	10.4	11.6	18.5	0.22	5.5	12.9	19.9	0.48	22.7
3024	70	0	22.5	24.5	0.30	8.9	15.0	16.4	0.20	4.4	16.3	17.8	0.43	18.5
3024	69	5	25.9	22.4	0.27	7.5	18.4	14.3	0.17	3.4	19.7	15.7	0.38	14.7
3024	68	10	29.3	20.3	0.25	6.3	21.7	12.2	0.15	2.6	23.0	13.7	0.33	11.4
3024	67	15	32.7	18.3	0.22	5.2	24.9	10.2	0.12	1.9	26.3	11.7	0.28	8.5

Capacity PGV 600×350-4-2,5

Water temp.			in/out 80°C/60°C				in/out 60°C/40°C				in/out 55°C/45°C			
Air flow	Air press. drop	Inlet air temp.	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop
m ³ /h	Pa	°C	°C	kW	l/s	kPa	°C	kW	l/s	kPa	°C	kW	l/s	kPa
1512	46	-5	46.4	28.6	0.35	7.4	31.7	20.4	0.25	4.2	32.6	20.9	0.51	15.7
1512	45	0	48.2	26.3	0.32	6.4	33.4	18.2	0.22	3.5	34.4	18.8	0.46	12.8
1512	44	5	50.0	24.1	0.30	5.4	35.0	16.1	0.20	2.8	36.1	16.6	0.40	10.3
1512	44	10	51.7	21.9	0.27	4.6	36.6	14.0	0.17	2.2	37.7	14.6	0.35	8.1
1512	43	15	53.4	19.8	0.24	3.8	38.0	11.8	0.14	1.6	39.3	12.5	0.30	6.2
2268	90	-5	40.7	38.1	0.47	12.5	27.6	27.2	0.33	7.1	28.6	28.0	0.68	26.6
2268	89	0	42.9	35.1	0.43	10.7	29.6	24.3	0.29	5.8	30.7	25.1	0.61	21.8
2268	87	5	45.0	32.2	0.39	9.2	31.6	21.4	0.26	4.6	32.7	22.3	0.54	17.5
2268	86	10	47.1	29.3	0.36	7.7	33.5	18.6	0.23	3.6	34.7	19.5	0.47	13.8
2268	84	15	49.1	26.4	0.32	6.4	35.4	15.8	0.19	2.7	36.7	16.8	0.41	10.5
3024	146	-5	36.7	46.4	0.57	17.8	24.7	33.0	0.40	10.0	25.7	34.2	0.83	38.2
3024	143	0	39.1	42.7	0.52	15.3	27.0	29.4	0.36	8.2	28.1	30.6	0.74	31.3
3024	141	5	41.5	39.1	0.48	13.1	29.2	25.9	0.32	6.5	30.4	27.2	0.66	25.1
3024	139	10	43.8	35.6	0.44	11.0	31.4	22.5	0.27	5.0	32.6	23.8	0.58	19.7
3024	137	15	46.1	32.1	0.39	9.1	33.5	19.1	0.23	3.8	34.8	20.4	0.50	15.0

Capacity PGV 700×400-2-2,5

Water temp.			in/out 80°C/60°C				in/out 60°C/40°C				in/out 55°C/45°C			
Air flow	Air press. drop	Inlet air temp.	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop
m ³ /h	Pa	°C	°C	kW	l/s	kPa	°C	kW	l/s	kPa	°C	kW	l/s	kPa
2016	26	-5	31.6	27.1	0.33	4.1	20.2	18.7	0.23	2.1	22.2	20.2	0.49	8.8
2016	26	0	34.2	24.9	0.31	3.5	22.8	16.6	0.20	1.7	24.8	18.0	0.44	7.2
2016	25	5	36.8	22.7	0.28	2.9	25.2	14.4	0.18	1.3	27.3	15.9	0.39	5.7
2016	25	10	39.4	20.6	0.25	2.5	27.6	12.3	0.15	1.0	29.7	13.8	0.34	4.4
2016	24	15	41.9	18.5	0.23	2.0	29.8	10.2	0.12	0.7	32.1	11.8	0.29	3.3
3024	51	-5	26.2	34.7	0.43	6.4	16.5	23.9	0.29	3.4	18.3	25.9	0.63	14.0
3024	50	0	29.2	31.9	0.39	5.5	19.4	21.1	0.26	2.7	21.2	23.1	0.56	11.4
3024	49	5	32.2	29.1	0.36	4.6	22.2	18.4	0.22	2.1	24.1	20.4	0.50	9.1
3024	49	10	35.1	26.3	0.32	3.9	25.0	18.7	0.19	1.6	26.9	17.7	0.43	7.0
3024	48	15	37.9	23.6	0.29	3.2	27.6	13.0	0.16	1.1	29.7	15.1	0.37	5.2
4032	82	-5	22.7	41.1	0.50	8.7	14.0	28.2	0.34	4.5	15.7	30.7	0.74	19.2
4032	81	0	25.9	37.7	0.46	7.5	17.1	24.9	0.30	3.6	18.8	27.4	0.66	15.6
4032	80	5	29.1	34.4	0.42	6.3	20.2	21.7	0.26	2.8	21.9	24.2	0.59	12.4
4032	79	10	32.2	31.1	0.38	5.2	23.2	18.5	0.23	2.1	25.0	21.0	0.51	9.5
4032	78	15	35.3	27.9	0.34	4.3	26.2	15.4	0.19	1.5	28.0	17.9	0.43	7.1

PGV

Capacity PGV 700×400-3-2,5

Water temp.			in/out 80°C/60°C				in/out 60°C/40°C				in/out 55°C/45°C			
Air flow	Air press. drop	Inlet air temp.	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop
m ³ /h	Pa	°C	°C	kW	l/s	kPa	°C	kW	l/s	kPa	°C	kW	l/s	kPa
2016	40	-5	42.4	35.1	0.43	3.8	27.7	24.3	0.29	2.0	30.1	26.0	0.63	8.3
2016	39	0	44.3	32.2	0.39	3.3	29.5	21.4	0.26	1.6	31.9	23.2	0.56	6.7
2016	38	5	46.2	29.4	0.36	2.8	31.1	18.6	0.23	1.2	33.7	20.5	0.50	5.3
2016	38	10	47.9	26.6	0.33	2.3	32.7	15.9	0.19	0.9	35.4	17.8	0.43	4.1
2016	37	15	49.7	23.9	0.29	1.9	34.0	13.1	0.16	0.7	37.0	15.2	0.37	3.1
3024	78	-5	36.3	46.0	0.56	6.3	23.5	31.6	0.38	3.3	25.7	34.2	0.83	13.8
3024	76	0	38.6	42.2	0.52	5.4	25.6	28.0	0.34	2.6	27.9	30.5	0.74	11.1
3024	75	5	40.9	38.4	0.47	4.5	27.7	24.3	0.30	2.0	30.1	26.9	0.65	8.8
3024	74	10	43.1	34.8	0.43	3.8	29.7	20.7	0.25	1.5	32.2	23.4	0.57	6.8
3024	73	15	45.2	31.2	0.38	3.1	31.6	17.1	0.21	1.1	34.3	19.9	0.48	5.1
4032	125	-5	32.2	55.1	0.68	8.9	20.5	37.8	0.46	4.6	22.7	41.1	1.00	19.4
4032	124	0	34.8	50.6	0.62	7.6	23.0	33.4	0.41	3.6	25.2	36.7	0.89	15.7
4032	122	5	37.3	46.1	0.57	6.4	25.4	29.1	0.35	2.8	27.6	32.3	0.78	12.4
4032	120	10	39.8	41.7	0.51	5.3	27.7	24.8	0.30	2.1	30.0	28.1	0.68	9.6
4032	118	15	42.2	37.4	0.46	4.3	29.9	20.5	0.25	1.5	32.4	23.9	0.58	7.1

Capacity PGV 800×500-2-2,5

Water temp.			in/out 80°C/60°C				in/out 60°C/40°C				in/out 55°C/45°C			
Air flow	Air press. drop	Inlet air temp.	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop
m ³ /h	Pa	°C	°C	kW	l/s	kPa	°C	kW	l/s	kPa	°C	kW	l/s	kPa
2880	26	-5	31.7	38.8	0.48	5.3	20.3	26.8	0.33	2.8	22.2	28.8	0.70	11.5
2880	26	0	34.3	35.6	0.44	4.5	22.9	23.7	0.29	2.2	24.8	25.8	0.62	9.3
2880	25	5	36.9	32.5	0.40	3.8	25.3	20.7	0.25	1.7	27.3	22.8	0.55	7.4
2880	25	10	39.4	29.5	0.36	3.2	27.7	17.7	0.22	1.3	29.8	19.8	0.48	5.7
2880	24	15	41.9	26.5	0.32	2.6	30.0	14.7	0.18	0.9	32.2	16.9	0.41	4.3
4320	51	-5	26.3	49.7	0.61	8.3	16.6	34.3	0.42	4.3	18.3	37.1	0.90	18.3
4320	50	0	29.3	45.6	0.56	7.1	19.4	30.3	0.37	3.5	21.2	33.1	0.80	14.8
4320	49	5	32.2	41.6	0.51	6.0	22.3	26.4	0.32	2.7	24.1	29.2	0.71	11.8
4320	49	10	35.1	37.7	0.46	5.0	25.0	22.6	0.27	2.0	26.9	25.4	0.62	9.1
4320	48	15	38.0	33.9	0.42	4.1	27.7	18.8	0.23	1.4	29.7	21.7	0.53	6.8
5760	82	-5	22.8	58.8	0.72	11.4	14.1	40.4	0.49	5.9	15.7	43.9	1.07	25.1
5760	81	0	26.0	54.0	0.66	9.7	17.2	35.8	0.43	4.7	18.9	39.2	0.95	20.3
5760	80	5	29.2	49.3	0.60	8.2	20.3	31.2	0.38	3.6	22.0	34.6	0.84	16.1
5760	79	10	32.3	44.6	0.55	6.8	23.3	26.6	0.32	2.7	25.0	30.1	0.73	12.4
5760	78	15	35.4	40.0	0.49	5.6	26.3	22.1	0.27	1.9	28.1	25.7	0.62	9.2

Capacity PGV 800×500-3-2,5

Water temp.			in/out 80°C/60°C				in/out 60°C/40°C				in/out 55°C/45°C			
Air flow	Air press. drop	Inlet air temp.	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop
m ³ /h	Pa	°C	°C	kW	l/s	kPa	°C	kW	l/s	kPa	°C	kW	l/s	kPa
2880	40	-5	43.0	50.8	0.62	6.6	28.5	35.5	0.43	3.5	30.5	37.6	0.91	14.2
2880	39	0	44.9	46.7	0.57	5.6	30.3	31.4	0.38	2.8	32.3	33.5	0.81	11.5
2880	38	5	46.8	42.6	0.52	4.7	31.9	27.5	0.33	2.2	34.1	29.6	0.72	9.1
2880	38	10	48.6	38.7	0.47	4.0	33.5	23.6	0.29	1.6	35.8	25.8	0.63	7.1
2880	37	15	50.3	34.7	0.43	3.2	35.0	19.6	0.24	1.2	37.5	22.1	0.54	5.3
4320	78	-5	36.9	66.6	0.82	10.9	24.2	46.3	0.56	5.7	26.1	49.4	1.20	23.6
4320	77	0	39.2	61.2	0.75	9.3	26.3	41.0	0.50	4.6	28.3	44.1	1.07	19.1
4320	75	5	41.5	55.8	0.68	7.8	28.4	35.8	0.44	3.5	30.5	39.0	0.95	15.2
4320	74	10	43.7	50.6	0.62	6.5	30.5	30.7	0.37	2.7	32.6	33.9	0.82	11.7
4320	73	15	45.8	45.5	0.56	5.3	32.4	25.6	0.31	1.9	34.7	29.0	0.70	8.7
5760	126	-5	32.8	80.0	0.98	15.3	21.2	55.4	0.67	8.0	23.1	59.4	1.44	33.4
5760	124	0	35.3	73.4	0.90	13.1	23.6	49.1	0.60	6.4	25.5	53.1	1.29	27.1
5760	122	5	37.8	67.0	0.82	11.0	26.0	42.9	0.52	4.9	28.0	46.9	1.14	21.4
5760	120	10	40.3	60.7	0.74	9.2	28.3	36.7	0.45	3.7	30.4	40.8	0.99	16.5
5760	118	15	42.7	54.5	0.67	7.5	30.6	30.6	0.37	2.7	32.7	34.8	0.84	12.3

Capacity PGV 1000×500-2-2,5

Water temp.			in/out 80°C/60°C				in/out 60°C/40°C				in/out 55°C/45°C			
Air flow	Air press. drop	Inlet air temp.	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop
m ³ /h	Pa	°C	°C	kW	l/s	kPa	°C	kW	l/s	kPa	°C	kW	l/s	kPa
3600	26	-5	32.4	49.5	0.61	8.8	21.2	34.7	0.42	4.7	22.7	36.7	0.89	19.0
3600	26	0	35.1	45.6	0.56	7.5	23.8	30.9	0.37	3.8	25.3	32.8	0.80	15.4
3600	25	5	37.7	41.6	0.51	6.4	26.2	27.1	0.33	3.0	27.8	29.1	0.70	12.3
3600	25	10	40.2	37.8	0.46	5.3	28.6	23.3	0.28	2.3	30.3	25.4	0.61	9.6
3600	24	15	42.7	34.0	0.42	4.4	30.9	19.6	0.24	1.7	32.7	21.7	0.53	7.2
5400	51	-5	27.0	63.5	0.78	13.9	17.4	44.4	0.54	7.4	18.8	47.2	1.14	30.2
5400	50	0	30.0	58.4	0.72	11.9	20.2	39.4	0.48	5.9	21.7	42.2	1.02	24.6
5400	50	5	32.9	53.4	0.65	10.1	23.1	34.5	0.42	4.7	24.5	37.4	0.91	19.6
5400	49	10	35.8	48.5	0.59	8.4	25.8	29.7	0.36	3.5	27.4	32.6	0.79	15.2
5400	48	15	38.7	43.6	0.53	6.9	28.6	25.0	0.30	2.6	30.1	27.9	0.68	11.4
7200	82	-5	23.4	75.2	0.92	19.0	14.8	52.4	0.64	10.1	16.1	56.0	1.36	41.6
7200	81	0	26.6	69.1	0.85	16.3	17.9	46.5	0.57	8.1	19.3	50.1	1.22	33.8
7200	80	5	29.8	63.2	0.77	13.8	21.0	40.8	0.50	6.3	22.4	44.3	1.07	26.9
7200	79	10	32.9	57.3	0.70	11.5	24.0	35.1	0.43	4.8	25.4	38.6	0.94	20.8
7200	78	15	36.0	51.6	0.63	9.5	27.0	29.4	0.36	3.5	28.4	33.0	0.80	15.6

PGV

Capacity PGV 1000×500-3-2,5

Water temp.			in/out 80°C/60°C				in/out 60°C/40°C				in/out 55°C/45°C			
Air flow	Air press. drop	Inlet air temp.	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop
m ³ /h	Pa	°C	°C	kW	l/s	kPa	°C	kW	l/s	kPa	°C	kW	l/s	kPa
3600	40	-5	43.9	64.7	0.79	10.8	29.6	45.8	0.56	5.8	31.0	47.7	1.16	23.0
3600	39	0	45.8	59.5	0.73	9.2	31.4	40.7	0.50	4.7	32.9	42.7	1.04	18.7
3600	38	5	47.7	54.5	0.67	7.8	33.1	35.8	0.44	3.7	34.6	37.8	0.92	14.9
3600	38	10	49.5	49.5	0.61	6.5	34.7	30.9	0.38	2.8	36.4	33.0	0.80	11.6
3600	37	15	51.3	44.6	0.55	5.4	36.2	26.1	0.32	2.1	38.0	28.3	0.69	8.7
5400	78	-5	37.8	84.9	1.04	17.8	25.1	59.8	0.73	9.6	26.6	62.8	1.52	38.5
5400	77	0	40.1	78.1	0.96	15.3	27.3	53.2	0.65	7.7	28.8	56.2	1.36	31.3
5400	75	5	42.3	71.4	0.88	12.9	29.4	46.7	0.57	6.0	31.0	49.7	1.21	24.9
5400	74	10	44.6	64.9	0.80	10.8	31.5	40.3	0.49	4.6	33.1	43.4	1.05	19.3
5400	73	15	46.7	58.4	0.72	8.9	33.4	34.0	0.41	3.4	35.2	37.2	0.90	14.5
7200	126	-5	33.6	102.0	1.25	25.2	22.1	71.6	0.87	13.4	23.6	75.6	1.83	54.5
7200	124	0	36.1	93.8	1.15	21.5	24.5	63.7	0.77	10.8	26.0	67.6	1.64	44.2
7200	122	5	38.7	85.8	1.05	18.2	26.9	55.9	0.68	8.4	28.5	59.9	1.45	35.2
7200	120	10	41.1	77.9	0.95	15.2	29.2	48.2	0.59	6.4	30.9	52.2	1.27	27.3
7200	118	15	43.5	70.1	0.86	12.5	31.5	40.6	0.49	4.7	33.2	44.7	1.09	20.4

Capacity PGV 1200×600-2-2,5

Water temp.			in/out 80°C/60°C				in/out 60°C/40°C				in/out 55°C/45°C			
Air flow	Air press. drop	Inlet air temp.	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop
m ³ /h	Pa	°C	°C	kW	l/s	kPa	°C	kW	l/s	kPa	°C	kW	l/s	kPa
5180	30	-5	34.7	75.5	0.92	8.2	23	53.3	0.65	4.5	24.3	55.8	1.35	17.7
5180	30	0	37.2	69.4	0.85	7	25.4	47.4	0.57	3.6	26.8	49.9	1.21	14.4
5180	29	5	39.7	63.5	0.77	6	27.8	41.7	0.50	2.9	29.2	44.2	1.07	11.5
5180	29	10	42.2	57.7	0.7	5	30.1	36	0.43	2.2	31.5	38.6	0.93	9
5180	28	15	44.5	51.9	0.63	4.1	32.3	30.4	0.37	1.6	33.8	33.1	0.80	6.7
7780	59	-5	28.3	95.2	1.16	12.7	18.5	66.9	0.81	6.8	19.7	70.5	1.71	27.5
7780	58	0	31.3	87.6	1.07	10.9	21.3	59.6	0.72	5.5	22.6	63.2	1.53	22.4
7780	57	5	34.1	80	0.98	9.2	24	52.3	0.64	4.3	25.4	55.9	1.35	17.8
7780	56	10	37	72.7	0.89	7.7	26.8	45.1	0.55	3.3	28.1	48.8	1.18	13.8
7780	55	15	39.8	65.4	0.80	6.3	29.4	38.1	0.46	2.4	30.8	41.8	1.01	10.4
10370	95	-5	24	110.5	1.35	16.8	15.4	77.5	0.94	8.9	16.6	82.1	1.99	36.5
10370	93	0	27.2	101.6	1.24	14.3	18.5	69	0.83	7.2	19.7	73.5	1.78	29.7
10370	92	5	30.4	92.9	1.14	12.1	21.5	60.5	0.73	5.7	22.8	65	1.57	23.6
10370	91	10	33.5	84.4	1.03	10.1	24.5	52.2	0.63	4.3	25.8	56.8	1.37	18.3
10370	89	15	36.6	75.9	0.93	8.3	27.5	44	0.53	3.1	28.8	48.6	1.17	13.7

Capacity PGV 1200×600-3-2,5

Water temp.			in/out 80°C/60°C				in/out 60°C/40°C				in/out 55°C/45°C			
Air flow	Air press. drop	Inlet air temp.	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop	Outlet air temp.	Output	Water flow	Water press. drop
m ³ /h	Pa	°C	°C	kW	l/s	kPa	°C	kW	l/s	kPa	°C	kW	l/s	kPa
5180	46	-5	46.7	98.2	1.20	8.1	31.9	70.1	0.85	4.5	32.9	72.1	1.75	17.1
5180	45	0	48.4	90.3	1.10	6.9	33.5	62.5	0.76	3.6	34.6	64.6	1.56	14
5180	44	5	50.2	82.6	1.01	5.9	35.1	55.1	0.67	2.9	36.3	57.2	1.38	11.2
5180	44	10	51.9	75.1	0.92	4.9	36.7	47.8	0.58	2.2	37.9	50	1.21	8.7
5180	43	15	53.5	67.7	0.83	4.1	38.1	40.6	0.49	1.7	39.4	42.9	1.04	6.6
7780	91	-5	39.6	127.2	1.56	13	26.7	90.4	1.09	7.2	27.9	93.8	2.27	28
7780	89	0	41.8	117.1	1.43	11.2	28.8	80.6	0.97	5.8	30	84	2.03	22.8
7780	87	5	44	107.1	1.31	9.5	30.8	71	0.86	4.6	32.1	74.4	1.80	18.2
7780	86	10	46.1	97.3	1.19	7.9	32.8	61.5	0.74	3.5	34.1	65	1.57	14.2
7780	84	15	48.2	87.7	1.07	6.5	34.7	52.1	0.63	2.6	36.1	55.8	1.35	10.7
10370	146	-5	34.5	150.3	1.84	17.8	23	106.5	1.29	9.7	24.2	111.1	2.69	38.4
10370	143	0	37.1	138.3	1.69	15.2	25.4	94.9	1.15	7.8	26.7	99.5	2.41	31.2
10370	141	5	39.6	126.6	1.55	12.9	27.8	83.5	1.01	6.2	29.1	88.1	2.13	24.9
10370	138	10	42	115	1.41	10.8	30.1	72.3	0.87	4.8	31.4	77	1.86	19.4
10370	136	15	44.4	103.6	1.27	8.9	32.4	61.2	0.74	3.5	33.8	66	1.60	14.6

Regulators



AQUA24TF



RC



RC-DO



OPTIGO OP10

AQUA

Complete regulator with built-in room sensor. Floating control for controlling three-position actuators. Cascade connection with minimum limit for room temperature control. Can be equipped with external room and/or duct sensor and external setpoint adjustment. Temperature range 0 - 30°C, depending on the sensor employed.

AQUA24TF

24V supply. The regulator has a built-in controlling anti-freeze protection with two alarm relays and automatic control for heating during stoppage.

REGIO MINI

Complete regulator with built-in room sensor. Can be equipped with external room and/or duct sensors. Has two control outputs, e.g. for heating and cooling in sequence.

RC

24V supply. 0...10V output control signal. DIP switches are used for basic 20 - 26°C setpoint setting. The basic setting can be adjusted by $\pm 3^\circ\text{C}$ by means of the setpoint knob.

RC-DO

24V supply. 0...10V output control signal. The RC-DO has a back-lit display and a temperature range of 0 - 50°C.

OPTIGO

Regulator with display. One knob for all settings. For mounting on DIN rail. Operates with PT1000 sensor in the range of -20°C to $+40^\circ\text{C}$. Started/stopped with "run" signal from the fan.

OP5

24V supply. 0...10V control signal output. Operates with one sensor (room or duct sensor). Can be reset for heating or cooling control.









OP10

24V supply. Can be reset for 0...10V control signal output or 3-point control. Two control outputs, e.g. for heating and cooling in sequence. Input for two sensors and anti-freeze sensor. Supply air temperature control or room temperature control with cascade-controlled supply air. Anti-freeze control with heating during stoppage. Output, e.g. for starting/stopping of fans via 230V~, 5A relay. Programmable one-week timer for controlling of both fan and heating/cooling. Terminal for external timer that extends the operating time. Can be equipped with external setpoint adjuster.





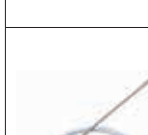


OP10-230

Same functions as the OP10, but with 230V~ supply.

Accessories for AQUA

	Product	Range	Design
	Duct sensor TG-K330	0-30°C	Degree of protection IP20
	Room sensor TG-R430 with setpoint adjustment	0-30°C	Degree of protection IP30
	Room sensor TG-R530	0-30°C	Degree of protection IP30
	Room sensor TG-R630	0-30°C	Degree of protection IP54
	Direct-contact sensor TG-A130 Delivered with clamp	0-30°C	Degree of protection IP65
	Immersion sensor TG-D130 of stainless steel for water temp. measurement	0-30°C	R $\frac{1}{4}$ " connection Ø 6 mm 135 mm insertion length Degree of protection IP65
	Immersion sensor TG-D230 stainless steel for water temp. measurement	0-30°C	R $\frac{1}{4}$ " connection Ø 6 mm 220 mm insertion length Degree of protection IP65
	Trafo 60 Totally enclosed transformer for wall mounting. Built-in two- pole fuse on secondary side.		Primary voltage 230V~ Secondary voltage 24V~ Max. rating 60 VA Degree of protection IP44

Accessories for OPTIGO and REGIO

	Product	Range	Design
	Duct sensor TG-K3/PT1000	-30...+70°C	Degree of protection IP65
	Room sensor TG-R5/PT1000	0-50°C	Degree of protection IP30
	Room sensor TG-UH/PT1000	-30...+120°C	Degree of protection IP65
	Direct-contact sensor TG-A130 Delivered with clamp.	-30...+150°C	Degree of protection IP65
	Immersion sensor TG-D1/PT1000 stainless steel for water temp. measurement	-30...+150°C	R $\frac{1}{4}$ " connection Ø 4 mm 135 mm insertion length Degree of protection IP65
	Immersion sensor TG-D2/PT1000 stainless steel for water temp. measurement	-30...+150°C	R $\frac{1}{4}$ " connection Ø 4 mm 220 mm insertion length Degree of protection IP65
	Trafo 60 Totally enclosed transformer for wall mounting. Built-in two- pole fuse on secondary side.		Primary voltage 230V~ Secondary voltage 24V~ Max. rating 60 VA Degree of protection IP44

Actuators and valves for Kvs 0.25 – 8.0 (110°C max)

Description		Type
3-position actuator for ZTV/ZTR valves, degree of protection IP44		RVAZ4-24
Actuator for 0...10V signal for ZTV/ZTR valves, degree of protection IP44		RVAZ4-24A
Description	Kvs	Type
2-way 1/2" valve	0.25	ZTV15-0.25
2-way 1/2" valve	0.4	ZTV15-0.4
2-way 1/2" valve	0.6	ZTV15-0.6
2-way 1/2" valve	1.0	ZTV15-1.0
2-way 1/2" valve	1.6	ZTV15-1.6
2-way 3/4" valve	2.0	ZTV20-2.0
2-way 3/4" valve	2.5	ZTV20-2.5
2-way 3/4" valve	4.0	ZTV20-4.0
2-way 3/4" valve	6.0	ZTV20-6.0
2-way 1" valve	8.0	ZTVB25-8.0
3-way 1/2" valve	0.25	ZTR15-0.25
3-way 1/2" valve	0.4	ZTR15-0.4
3-way 1/2" valve	0.6	ZTR15-0.6
3-way 1/2" valve	1.0	ZTR15-1.0
3-way 1/2" valve	1.6	ZTR15-1.6
3-way 3/4" valve	2.0	ZTR20-2.0
3-way 3/4" valve	2.5	ZTR20-2.5
3-way 3/4" valve	4.0	ZTR20-4.0
3-way 3/4" valve	6.0	ZTR20-6.0
3-way 1" valve	8.0	ZTRB25-8

Actuator RVAZ4-24



Valve ZTV



Valve ZTR



Actuators and valves for Kvs 1.0 – 16.0 (max 185°C)

Description		Type
3-position actuator for MTVS/MTRS valves, degree of protection IP54		RVAN5-24
Actuator for 0...10V signal for MTVS/MTRS valves, degree of protection IP54		RVAN5-24A
Description	Kvs	Type
2-way 1/2" valve	1.0	MTVS15-1.0
2-way 1/2" valve	1.6	MTVS15-1.6
2-way 1/2" valve	2.1	MTVS15-2.1
2-way 1/2" valve	2.7	MTVS15-2.7
2-way 3/4" valve	4.2	MTVS20-4.2
2-way 3/4" valve	5.6	MTVS20-5.6
2-way 1" valve	10.0	MTVS25-10
2-way 1 1/4" valve	16.0	MTVS32-16
3-way 1/2" valve	0.63	MTRS15-0.63
3-way 1/2" valve	1.0	MTRS15-1.0
3-way 1/2" valve	1.6	MTRS15-1.6
3-way 1/2" valve	2.1	MTRS15-2.1
3-way 1/2" valve	2.7	MTRS15-2.7
3-way 3/4" valve	4.2	MTRS20-4.2
3-way 3/4" valve	5.6	MTRS20-5.6
3-way 1" valve	10.0	MTRS25-10
3-way 1 1/4" valve	16.0	MTRS32-16

Actuator RVAN5-24



Valve MTVS



Valve MTRS



Guide for selection of valves and actuators for PGV heaters

110°C max. water temperature

Actuator RVAZ4-24 (3-position) or RVAZ4-24A (0...10V) can be used for all ZTV/ZTR valves.

Type of PGV	Valve type	Kvs
PGV 400×200-2-2,5	2-way ZTV20-1.6 3-way ZTR20-1.6	1.6
PGV 400×200-4-2,5	2-way ZTV20-2.5 3-way ZTR20-2.5	2.5
PGV 500×250-2-2,5	2-way ZTV20-2.5 3-way ZTR20-2.5	2.5
PGV 500×250-4-2,5	2-way ZTV20-2.5 3-way ZTR20-2.5	2.5
PGV 500×300-2-2,5	2-way ZTV20-2.5 3-way ZTR20-2.5	2.5
PGV 500×300-4-2,5	2-way ZTV20-2.5 3-way ZTR20-2.5	2.5
PGV 600×300-2-2,5	2-way ZTV20-2.5 3-way ZTR20-2.5	2.5
PGV 600×300-4-2,5	2-way ZTV20-4.0 3-way ZTR20-4.0	4.0
PGV 600×350-2-2,5	2-way ZTV20-2.5 3-way ZTR20-2.5	2.5
PGV 600×350-4-2,5	2-way ZTV20-4.0 3-way ZTR20-4.0	4.0
PGV 700×400-2-2,5	2-way ZTV20-6.0 3-way ZTR20-6.0	6.0
PGV 700×400-3-2,5	2-way ZTV20-6.0 3-way ZTR20-6.0	6.0
PGV 800×500-2-2,5	2-way ZTV20-6.0 3-way ZTR20-6.0	6.0
PGV 800×500-3-2,5	2-way ZTVB25-8 3-way ZTRB25-8	8.0
PGV 1000×500-2-2,5	2-way ZTVB25-8 3-way ZTRB25-8	8.0
PGV 1000×500-3-2,5	2-way ZTVB25-8 3-way ZTRB25-8	8.0
PGV 1200×600-2-2,5	2-way ZTVB32-15 3-way ZTRB32-15	15.0
PGV 1200×600-3-2,5	2-way ZTVB32-15 3-way ZTRB32-15	15.0

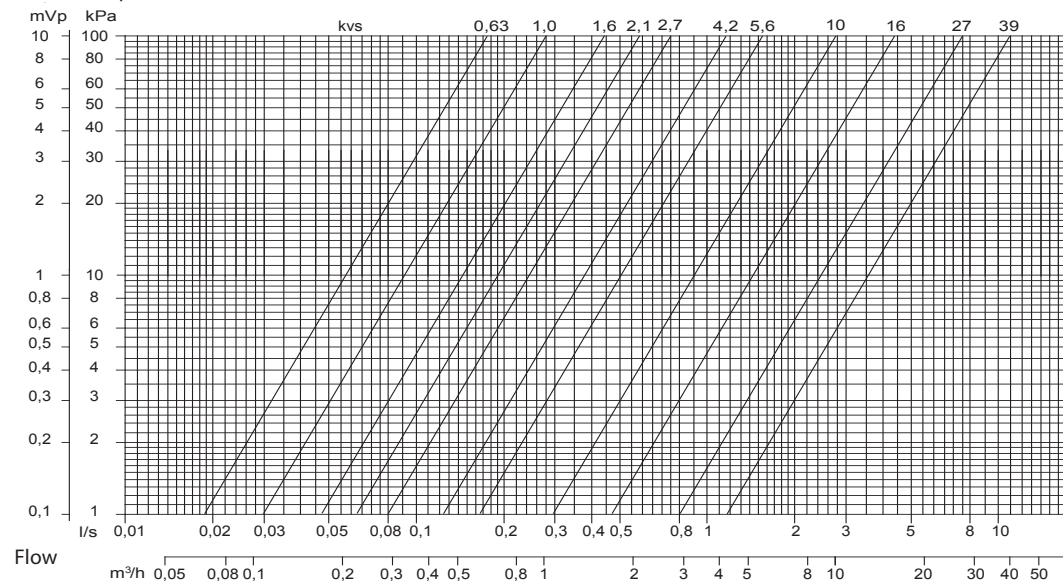
185°C max. water temperature

Actuator RVAN5-24 (3-position) or RVAN5-24A (0...10V) can be used for all MTVS/MTRS valves.

Type of PGV	Valve type	Kvs
PGV 400×200-2-2,5	2-way MTVS15-1.6 3-way MTRS15-1.6	1.6
PGV 400×200-4-2,5	2-way MTVS15-2.7 3-way MTRS15-2.7	2.7
PGV 500×250-2-2,5	2-way MTVS15-1.6 3-way MTRS15-1.6	1.6
PGV 500×250-4-2,5	2-way MTVS15-2.7 3-way MTRS15-2.7	2.7
PGV 500×300-2-2,5	2-way MTVS15-2.7 3-way MTRS15-2.7	2.7
PGV 500×300-4-2,5	2-way MTVS15-2.7 3-way MTRS15-2.7	2.7
PGV 600×300-2-2,5	2-way MTVS15-2.7 3-way MTRS15-2.7	2.7
PGV 600×300-4-2,5	2-way MTVS20-4.2 3-way MTRS20-4.2	4.2
PGV 600×350-2-2,5	2-way MTVS15-2.7 3-way MTRS15-2.7	2.7
PGV 600×350-4-2,5	2-way MTVS20-4.2 3-way MTRS20-4.2	4.2
PGV 700×400-2-2,5	2-way MTVS20-5.6 3-way MTRS20-5.6	5.6
PGV 700×400-3-2,5	2-way MTVS20-5.6 3-way MTRS20-5.6	5.6
PGV 800×500-2-2,5	2-way MTVS20-5.6 3-way MTRS20-5.6	5.6
PGV 800×500-3-2,5	2-way MTVS20-5.6 3-vägs MTRS20-5.6	5.6
PGV 1000×500-2-2,5	2-way MTVS20-5.6 3-way MTRS20-5.6	5.6
PGV 1000×500-3-2,5	2-way MTVS20-5.6 3-way MTRS20-5.6	5.6
PGV 1200×600-2-2,5	2-way MTVS25-10 3-way MTRS25-10	10
PGV 1200×600-3-2,5	2-way MTVS25-10 3-way MTRS25-10	10

Pressure drops across valves

Pressure drop





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