



- Without heat
- Water heat

Lengths: 1,2, 1,8, 2,4 and 3 metres



## Thermozone® AGI A/W

**Air curtains for large industrial doorways. For horizontal or vertical mounting**

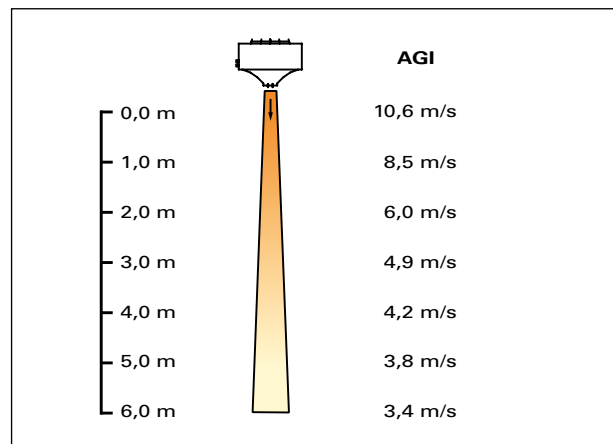
AGI is a robust air curtain for industrial doors that can be mounted horizontally or vertically. It is available in four module lengths which can easily be combined to cover the individual needs of every door.

AGI creates an air barrier that efficiently prevents cold draughts and provides a comfortable level of heat inside the door that allows you to utilise the whole floor space up to the front of the door. Large savings are made by the elimination of energy losses through openings. An adjustable outlet grille allows you to direct the air flow to achieve an optimal air curtain effect.

In addition to preventing cold draughts, the AGI unit prevents odours, exhaust gases and insects from penetrating the opening. An AGI unit with heater contributes to heating the building and can also dry up in front of the door where a lot of snow and water enters. An AGI unit without heater allows you to drastically reduce energy losses through openings to cold rooms, air conditioned areas or other unheated buildings. The air flow is regulated using a 5-step transformer or continuously variable 3-phase control.

- Robust and simple module based design.
- Corrosion proof welded housing made of zinc-plated steel panels. Painted with two-pack coating. Colour: RAL9006.
- For horizontal or vertical mounting.
- Simple suspension using fixed nuts on the top for mounting with threaded rod.
- An adjustable outlet grille allows you to direct the airflow for an optimal air curtain effect.

### Air velocity profile



Design and specifications are subject to change without notice.

**Technical specifications** | Thermozone AGI A without heat 🌩

Type*1	Output [kW]	Max Airflow [m³/h]	Sound level*2 [dB(A)]	Voltage [V]	Amperage [A]	Height/ Length [mm]	Weight [kg]
AGIH2A/AGIV2A	0	7000	69	400V3~	2,4	1200	51
AGIH3A/AGIV3A	0	10500	71	400V3~	3,5	1800	75
AGIH4A/AGIV4A	0	14000	72	400V3~	4,7	2400	97
AGIH5A/AGIV5A	0	17500	73	400V3~	5,9	3000	120

\*1) H= horizontal, V= vertical.

\*2) Conditions: Distance to the unit: 5 metres. Directional factor: 2. Equivalent absorption area: 200 m².

Protection class AGI A without heat: (IP54).  
CE compliant.

**Technical specifications** | Thermozone AGI WL with water heat, horizontal mounting, coil for low tempered water <80/60 °C 💧

Type	Output*1 [kW]	Max Airflow [m³/h]	Δt*1,2 [°C]	Water volume [l]	Sound level*3 [dB(A)]	Voltage [V]	Amperage [A]	Length [mm]	Weight [kg]
AGIH2WL	56	7000	24	6,6	69	400V3~	2,4	1200	82
AGIH3WL	86	10500	24	10,1	71	400V3~	3,5	1800	125
AGIH4WL	118	14000	25	14,0	72	400V3~	4,7	2400	165
AGIH5WL	147	17500	25	17,6	73	400V3~	5,9	3000	205

**Technical specifications** | Thermozone AGI WL with water heat, vertical mounting, coil for low tempered water <80/60 °C 💧

Type	Output*1 [kW]	Max Airflow [m³/h]	Δt*1,2 [°C]	Water volume [l]	Sound level*3 [dB(A)]	Voltage [V]	Amperage [A]	Height [mm]	Weight [kg]
AGIV2WL	50	7000	21	6,6	69	400V3~	2,4	1200	82
AGIV3WL	77	10500	22	10,1	71	400V3~	3,5	1800	125
AGIV4WL	106	14000	23	14,0	72	400V3~	4,7	2400	165
AGIV5WL	132	17500	22	17,6	73	400V3~	5,9	3000	205

**Technical specifications** | Thermozone AGI WH with water heat, horizontal mounting, coil for high tempered water ≥80/60 °C 💧

Type	Output*1 [kW]	Max Airflow [m³/h]	Δt*1,2 [°C]	Water volume [l]	Sound level*3 [dB(A)]	Voltage [V]	Amperage [A]	Length [mm]	Weight [kg]
AGIH2WH	42	7000	18	4,6	69	400V3~	2,4	1200	76
AGIH3WH	65	10500	18	7,0	71	400V3~	3,5	1800	112
AGIH4WH	89	14000	19	9,5	72	400V3~	4,7	2400	148
AGIH5WH	112	17500	19	12,0	73	400V3~	5,9	3000	180

**Technical specifications** | Thermozone AGI WH with water heat, vertical mounting, coil for high tempered water ≥80/60 °C 💧

Type	Output*1 [kW]	Max Airflow [m³/h]	Δt*1,2 [°C]	Water volume [l]	Sound level*3 [dB(A)]	Voltage [V]	Amperage [A]	Height [mm]	Weight [kg]
AGIV2WH	37	7000	16	4,6	69	400V3~	2,4	1200	76
AGIV3WH	58	10500	16	7,0	71	400V3~	3,5	1800	112
AGIV4WH	81	14000	17	9,5	72	400V3~	4,7	2400	148
AGIV5WH	100	17500	17	12,0	73	400V3~	5,9	3000	180

\*1) Applicable at water temperature 80/60 °C, air temperature +15 °C.

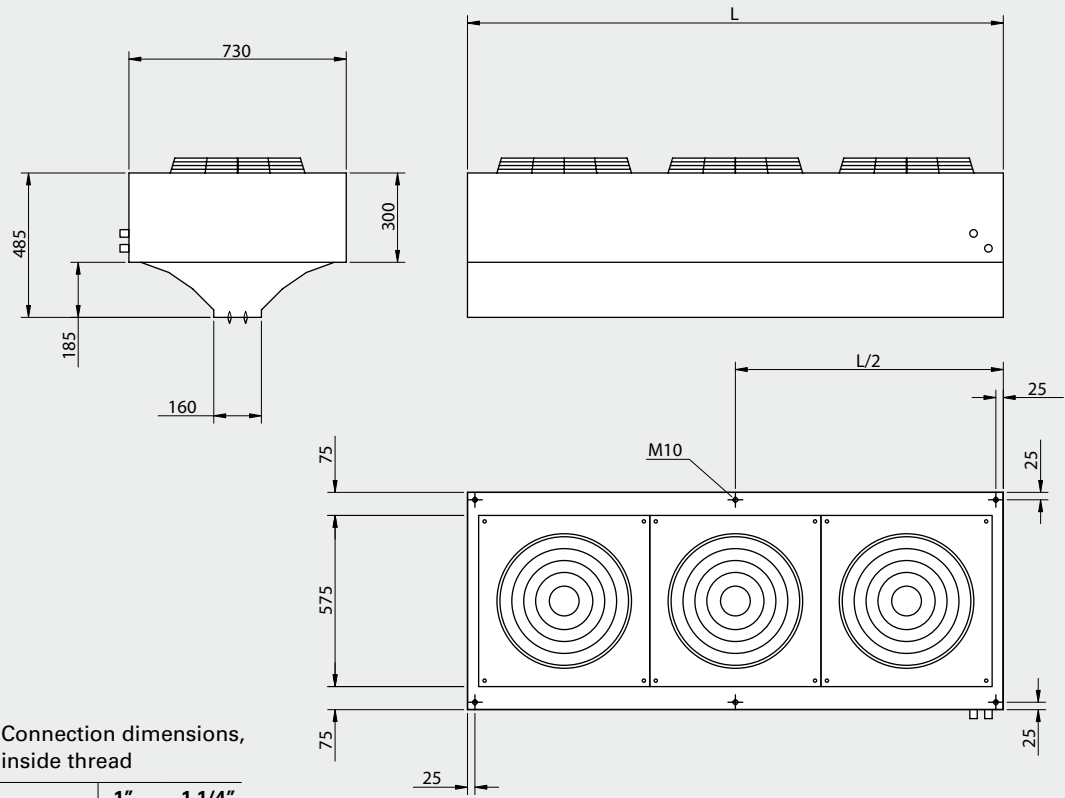
\*2) Δt = temperature rise of passing air at maximum heat output and highest airflow.

\*3) Conditions: Distance to the unit: 5 metres. Directional factor: 2. Equivalent absorption area: 200 m².

Protection class AGI W with water heat: (IP54).  
CE compliant.

**Dimensions**

**Horizontal mounting**



Connection dimensions, inside thread

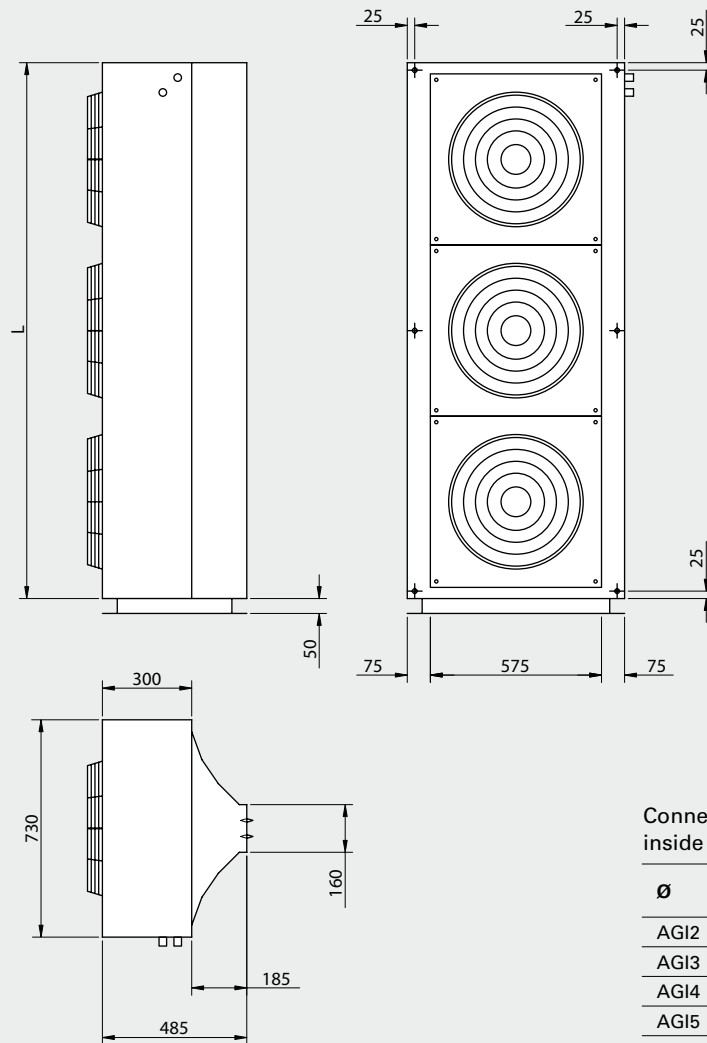
Ø	1" DN25	1 1/4" DN32
AGI2	X	
AGI3	X	
AGI4	X	
AGI5		X

**Mounting**

AGI is mounted horizontally with a threaded bar using six (four for AGI2) fixed nuts (M10) on the top.

**Dimensions**

**Vertical mounting**



Connection dimensions, inside thread

∅	1" DN25	1 1/4" DN32
AGI2	X	
AGI3	X	
AGI4	X	
AGI5		X

**Mounting**

AGI is mounted vertically on an accompanying floor bracket that is bolted to the floor. Several AGI units can be mounted on top of each other with brackets that are fixed on the unit at delivery. If the AGI-installation is higher than 2 m it must be fixed to a wall or to the ceiling to prevent the unit from falling over.

For further information on AGI please contact Frico.

## Control kits

### Ambient ✨

#### Level 1

Desired airflow is set manually and the unit starts automatically, according to the setting, when the door opens and stops when the door closes.

Complete control kit:

- RTRD7, RTRD14, 5-steps fan speed control, controls the airflow in 5 steps.
- AGB304, door contact. Starts/stops the air curtain when the door is opened/closed.

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### Water 💧

#### Level 1

Desired airflow is set manually and the unit starts automatically, according to the setting, when the door opens and stops when the door closes. Room thermostat controls the heat output on/off via actuator/valve.

Complete control kit:

- RTRD7, RTRD14, 5-steps fan speed control, controls the airflow in 5 steps.
- AGB304, door contact. Starts/stops the air curtain when the door is opened/closed.
- T10, room thermostat IP30 (option KRT1900, IP55)
- VR25, set of valves (option only actuator/valve SD20/TVV25)

#### Level 2

Airflow and heat output are controlled automatically based on the opening of the door and the room temperature. When the door is open the fan runs on high speed, when the door closes the fan will continue to run for the desired time (1–10 min.) set on the MDC. When the door is closed the fan runs on low speed if there is a need for heating, if not the fan is switched off.

The room thermostat controls the heat output on/off. E.g. the thermostat is set on 23 °C and the difference between the steps 4 °C. The thermostat will activate below 19 °C when the door is closed. When the door opens, the thermostat will activate below 23 °C and normally the heat is switched on.

Complete control kit:

- RTRDU7, 5-steps fan speed control with two separate airflow controls, controls the airflow in 5 steps.
- MDC, door contact with time delay
- RTI2, 2-step room thermostat IP44 (option KRT2800, IP55)
- VR25, set of valves (option only actuator/valve SD20/TVV25)

## Output charts water

## AGI WL - horizontal mounting

## Incoming / outgoing water temperature 80/60 °C

Type	Fan position	Airflow [m³/h]	Incoming air temp. = +15 °C			Incoming air temp. = +20 °C		
			Output [kW]	Outgoing air temp. [°C]	Water flow [l/s]	Output [kW]	Outgoing air temp. [°C]	Water flow [l/s]
AGIH2	max	7000	55,6	39	0,68	50,4	41	0,62
AGIH3	max	10500	85,6	39	1,05	77,5	42	0,95
AGIH4	max	14000	117,9	40	1,44	106,4	43	1,30
AGIH5	max	17500	147,1	40	1,80	132,8	42	1,62

## Incoming / outgoing water temperature 60/50 °C

Type	Fan position	Airflow [m³/h]	Incoming air temp. = +15 °C			Incoming air temp. = +20 °C		
			Output [kW]	Outgoing air temp. [°C]	Water flow [l/s]	Output [kW]	Outgoing air temp. [°C]	Water flow [l/s]
AGIH2	max	7000	41,1	32	1,00	35,8	35	0,87
AGIH3	max	10500	63,2	33	1,54	55,2	36	1,34
AGIH4	max	14000	86,6	33	2,10	75,6	36	1,84
AGIH5	max	17500	108,2	33	2,63	94,4	36	2,29

## Incoming / outgoing water temperature 60/40 °C

Type	Fan position	Airflow [m³/h]	Incoming air temp. = +15 °C			Incoming air temp. = +20 °C		
			Output [kW]	Outgoing air temp. [°C]	Water flow [l/s]	Output [kW]	Outgoing air temp. [°C]	Water flow [l/s]
AGIH2	max	7000	33,7	29	0,41	28,4	32	0,34
AGIH3	max	10500	51,5	30	0,62	43,2	32	0,53
AGIH4	max	14000	71,0	30	0,86	59,5	33	0,72
AGIH5	max	17500	88,5	30	1,07	74,1	33	0,90

## Incoming / outgoing water temperature 60/30 °C

Type	Fan position	Airflow [m³/h]	Incoming air temp. = +15 °C			Incoming air temp. = +20 °C		
			Output [kW]	Outgoing air temp. [°C]	Water flow [l/s]	Output [kW]	Outgoing air temp. [°C]	Water flow [l/s]
AGIH2	max	7000	25,7	26	0,21	19,8	28	0,16
AGIH3	max	10500	38,6	26	0,31	28,8	28	0,23
AGIH4	max	14000	53,3	26	0,43	40,9	29	0,33
AGIH5	max	17500	66,2	26	0,53	48,4	28	0,39

## Output charts water

### AGIWL - vertical mounting

Incoming / outgoing water temperature 80/60 °C								
			Incoming air temp. = +15 °C			Incoming air temp. = +20 °C		
Type	Fan position	Airflow [m³/h]	Output [kW]	Outgoing air temp. [°C]	Water flow [l/s]	Output [kW]	Outgoing air temp. [°C]	Water flow [l/s]
AGIV2	max	7000	50,1	36	0,60	45,4	39	0,18
AGIV3	max	10500	77,0	37	0,92	69,8	40	0,28
AGIV4	max	14000	106,1	38	1,27	95,7	40	0,38
AGIV5	max	17500	132,4	38	1,59	119,5	40	0,48

Incoming / outgoing water temperature 60/50 °C								
			Incoming air temp. = +15 °C			Incoming air temp. = +20 °C		
Type	Fan position	Airflow [m³/h]	Output [kW]	Outgoing air temp. [°C]	Water flow [l/s]	Output [kW]	Outgoing air temp. [°C]	Water flow [l/s]
AGIV2	max	7000	37,0	31	0,15	32,3	34	0,13
AGIV3	max	10500	56,9	31	0,23	49,6	34	0,20
AGIV4	max	14000	78,0	32	0,31	68,0	34	0,27
AGIV5	max	17500	97,4	32	0,39	85,0	34	0,34

Incoming / outgoing water temperature 60/40 °C								
			Incoming air temp. = +15 °C			Incoming air temp. = +20 °C		
Type	Fan position	Airflow [m³/h]	Output [kW]	Outgoing air temp. [°C]	Water flow [l/s]	Output [kW]	Outgoing air temp. [°C]	Water flow [l/s]
AGIV2	max	7000	30,4	28	0,12	25,6	31	0,10
AGIV3	max	10500	46,3	28	0,18	38,9	31	0,16
AGIV4	max	14000	64,0	29	0,26	53,6	31	0,21
AGIV5	max	17500	79,7	28	0,32	66,7	31	0,27

Incoming / outgoing water temperature 60/30 °C								
			Incoming air temp. = +15 °C			Incoming air temp. = +20 °C		
Type	Fan position	Airflow [m³/h]	Output [kW]	Outgoing air temp. [°C]	Water flow [l/s]	Output [kW]	Outgoing air temp. [°C]	Water flow [l/s]
AGIV2	max	7000	23,1	25	0,09	17,8	28	0,07
AGIV3	max	10500	34,7	25	0,14	26,0	27	0,10
AGIV4	max	14000	48,0	25	0,19	36,8	28	0,15
AGIV5	max	17500	59,5	25	0,24	43,6	27	0,17

## Output charts water

## AGIWH - horizontal mounting

## Incoming / outgoing water temperature 130/70 °C

Type	Fan position	Airflow [m³/h]	Incoming air temp. = +15 °C			Incoming air temp. = +20 °C		
			Output [kW]	Outgoing air temp. [°C]	Water flow [l/s]	Output [kW]	Outgoing air temp. [°C]	Water flow [l/s]
AGIH2	max	7000	63,9	37	0,26	55,8	44	0,23
AGIH3	max	10500	99,2	38	0,41	86,6	44	0,36
AGIH4	max	14000	137,4	39	0,57	119,7	45	0,49
AGIH5	max	17500	171,1	39	0,71	148,9	45	0,62

## Incoming / outgoing water temperature 110/80 °C

Type	Fan position	Airflow [m³/h]	Incoming air temp. = +15 °C			Incoming air temp. = +20 °C		
			Output [kW]	Outgoing air temp. [°C]	Water flow [l/s]	Output [kW]	Outgoing air temp. [°C]	Water flow [l/s]
AGIH2	max	7000	61,0	41	0,50	57,1	44	0,47
AGIH3	max	10500	95,0	42	0,78	88,8	45	0,73
AGIH4	max	14000	131,2	43	1,08	122,8	46	1,01
AGIH5	max	17500	163,7	43	1,35	153,1	46	1,26

## Incoming / outgoing water temperature 90/70 °C

Type	Fan position	Airflow [m³/h]	Incoming air temp. = +15 °C			Incoming air temp. = +20 °C		
			Output [kW]	Outgoing air temp. [°C]	Water flow [l/s]	Output [kW]	Outgoing air temp. [°C]	Water flow [l/s]
AGIH2	max	7000	50,0	36	0,61	46,0	40	0,56
AGIH3	max	10500	78,1	37	0,96	71,9	40	0,88
AGIH4	max	14000	107,5	38	1,32	99,0	41	1,21
AGIH5	max	17500	134,1	38	1,65	123,5	41	1,52

## Incoming / outgoing water temperature 80/60 °C

Type	Fan position	Airflow [m³/h]	Incoming air temp. = +15 °C			Incoming air temp. = +20 °C		
			Output [kW]	Outgoing air temp. [°C]	Water flow [l/s]	Output [kW]	Outgoing air temp. [°C]	Water flow [l/s]
AGIH2	max	7000	41,6	33	0,51	37,6	36	0,46
AGIH3	max	10500	64,7	33	0,79	58,5	36	0,71
AGIH4	max	14000	89,5	34	1,09	80,6	37	0,99
AGIH5	max	17500	111,6	34	1,36	100,5	37	1,23



## Output charts water

### AGIWH - vertical mounting

Incoming / outgoing water temperature 130/70 °C								
Type	Fan position	Airflow [m³/h]	Incoming air temp. = +15 °C			Incoming air temp. = +20 °C		
			Output [kW]	Outgoing air temp. [°C]	Water flow [l/s]	Output [kW]	Outgoing air temp. [°C]	Water flow [l/s]
AGIV2	max	7000	57,5	34	0,23	50,2	41	0,20
AGIV3	max	10500	89,2	35	0,36	77,9	42	0,31
AGIV4	max	14000	123,7	36	0,49	107,7	43	0,43
AGIV5	max	17500	154,0	36	0,61	134,0	43	0,53

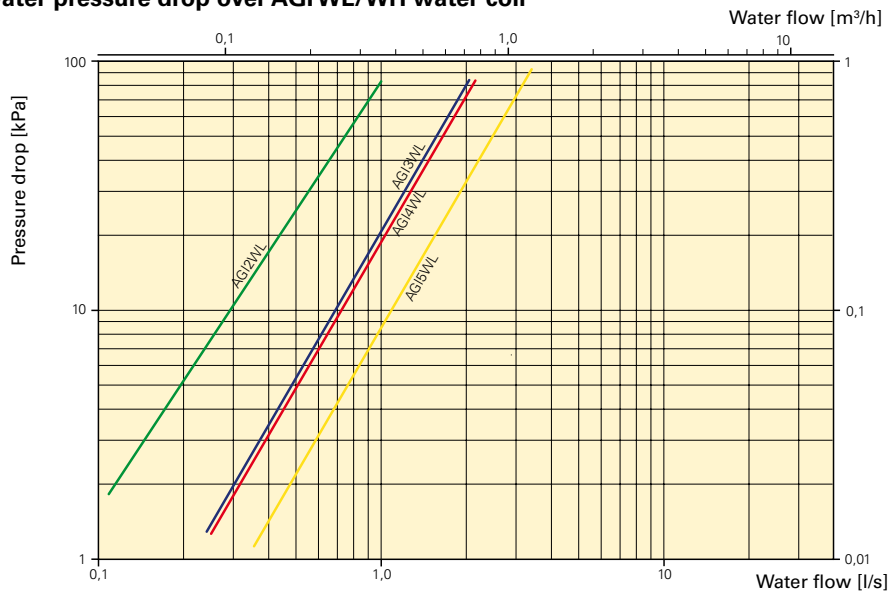
Incoming / outgoing water temperature 110/80 °C								
Type	Fan position	Airflow [m³/h]	Incoming air temp. = +15 °C			Incoming air temp. = +20 °C		
			Output [kW]	Outgoing air temp. [°C]	Water flow [l/s]	Output [kW]	Outgoing air temp. [°C]	Water flow [l/s]
AGIV2	max	7000	54,9	38	0,44	51,4	42	0,41
AGIV3	max	10500	85,5	39	0,68	79,9	43	0,64
AGIV4	max	14000	118,1	40	0,94	110,5	44	0,88
AGIV5	max	17500	147,4	40	1,18	137,8	43	1,10

Incoming / outgoing water temperature 90/70 °C								
Type	Fan position	Airflow [m³/h]	Incoming air temp. = +15 °C			Incoming air temp. = +20 °C		
			Output [kW]	Outgoing air temp. [°C]	Water flow [l/s]	Output [kW]	Outgoing air temp. [°C]	Water flow [l/s]
AGIV2	max	7000	45,0	34	0,54	41,4	38	0,50
AGIV3	max	10500	70,3	35	0,84	64,7	38	0,77
AGIV4	max	14000	96,7	36	1,16	89,1	39	1,07
AGIV5	max	17500	120,7	36	1,45	111,1	39	1,33

Incoming / outgoing water temperature 80/60 °C								
Type	Fan position	Airflow [m³/h]	Incoming air temp. = +15 °C			Incoming air temp. = +20 °C		
			Output [kW]	Outgoing air temp. [°C]	Water flow [l/s]	Output [kW]	Outgoing air temp. [°C]	Water flow [l/s]
AGIV2	max	7000	37,4	31	0,45	33,9	34	0,41
AGIV3	max	10500	58,2	32	0,70	52,6	35	0,63
AGIV4	max	14000	80,5	32	0,96	72,6	35	0,87
AGIV5	max	17500	100,4	32	1,20	90,4	35	1,08

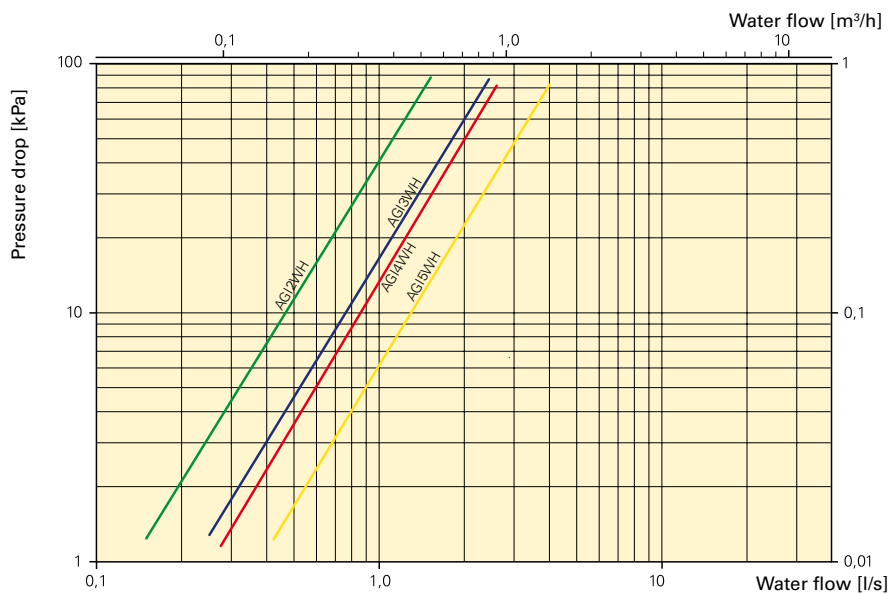
## Pressure drop water

### Water pressure drop over AGI WL/WH water coil



The pressure drop is calculated for an average temperature of 70 °C (PVV 80/60). For other water temperatures, the pressure drop is multiplied by the factor K.

Average temp. water °C	K
40	1,10
50	1,06
60	1,03
70	1,00
80	0,97
90	0,93



### Water pressure drop over regulations and valves

