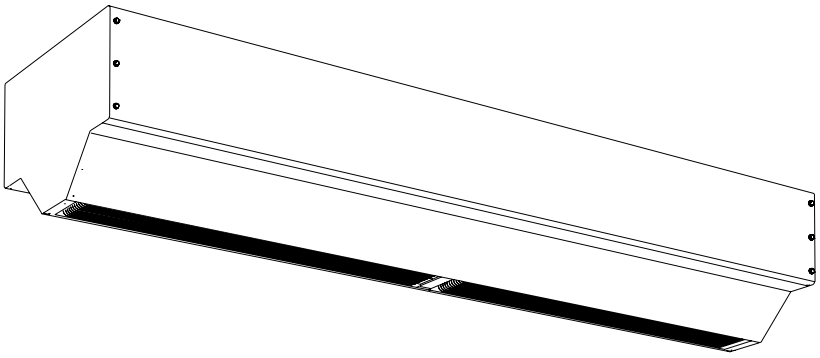
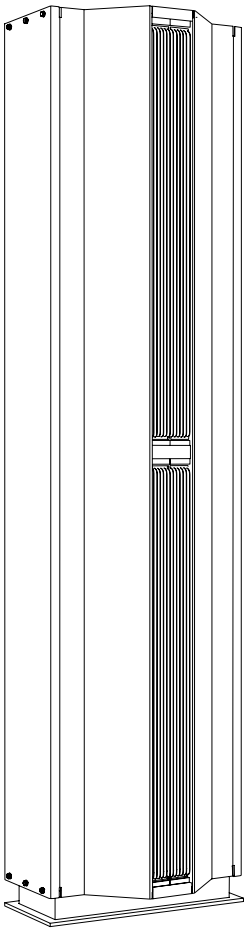
Original instructions

AGI4500/6000





SE **Introduktionssidorna består huvudsakligen av bilder. För översättning av de engelska texter som används, se respektive språksidor.**

EN **The introduction pages consist mainly of pictures. For translation of the English texts used, see the respective language pages.**

NO **Introduksjonssidene består hovedsakelig av bilder. For oversettelse av de engelske tekstene, se de respektive språksidene**

FR **Les pages de présentation contiennent principalement des images. Consulter la page correspondant à la langue souhaitée.**

DE **Die Einleitungsseiten bestehen hauptsächlich aus Bildern. Für die Übersetzung der verwendeten Texte in englischer Sprache, siehe die entsprechenden Sprachseiten.**

ES **Las páginas introductorias contienen básicamente imágenes. Consulte la traducción de los textos en inglés que las acompañan en las páginas del idioma correspondiente.**

NL **De inleidende pagina's bevatten hoofdzakelijk afbeeldingen. Voor een vertaling van de gebruikte Engelse teksten, zie de pagina's van de resp. taal.**

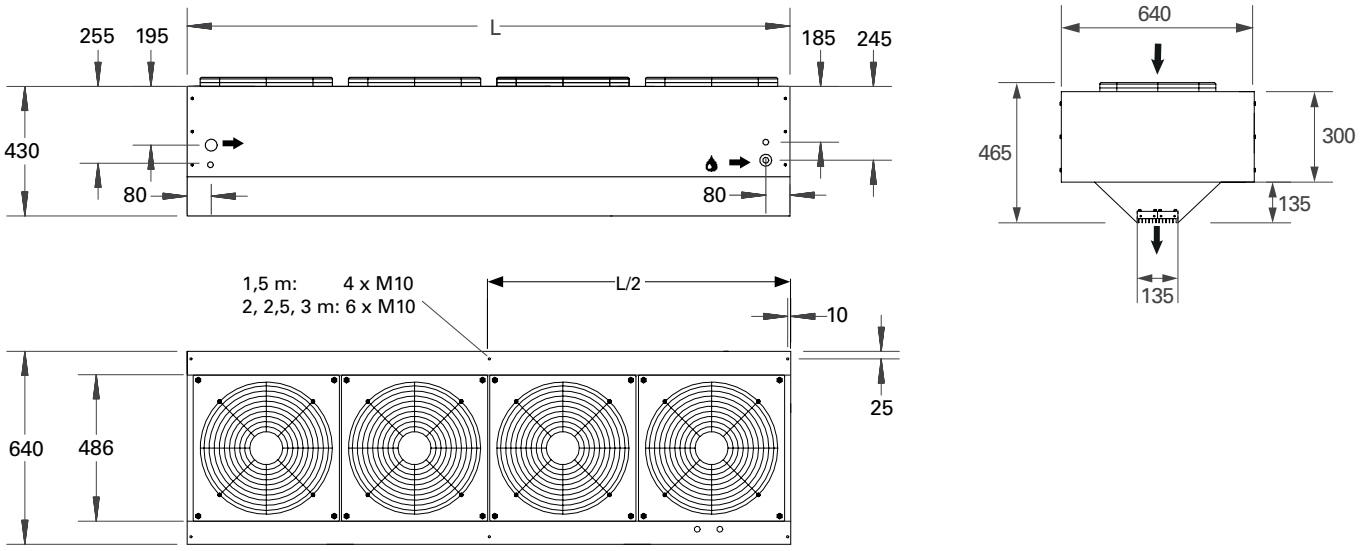
IT **Le pagine introduttive contengono prevalentemente immagini. Per le traduzioni dei testi scritti in inglese, vedere le pagine nelle diverse lingue.**

PL **Początkowe strony zawierają głównie rysunki. Tłumaczenie wykorzystanych tekstów angielskich znajduje się na odpowiednich stronach językowych.**

RU **Страницы в начале Инструкции состоят в основном из рисунков, схем и таблиц. Перевод встречающегося там текста приведен в разделе RU.**

AGI4500

Horizontal mounting



	L [mm]
AGI4515	1500
AGI4520	2000
AGI4525	2500
AGI4530	3000

DN25 (1"), inside thread

Vertical mounting

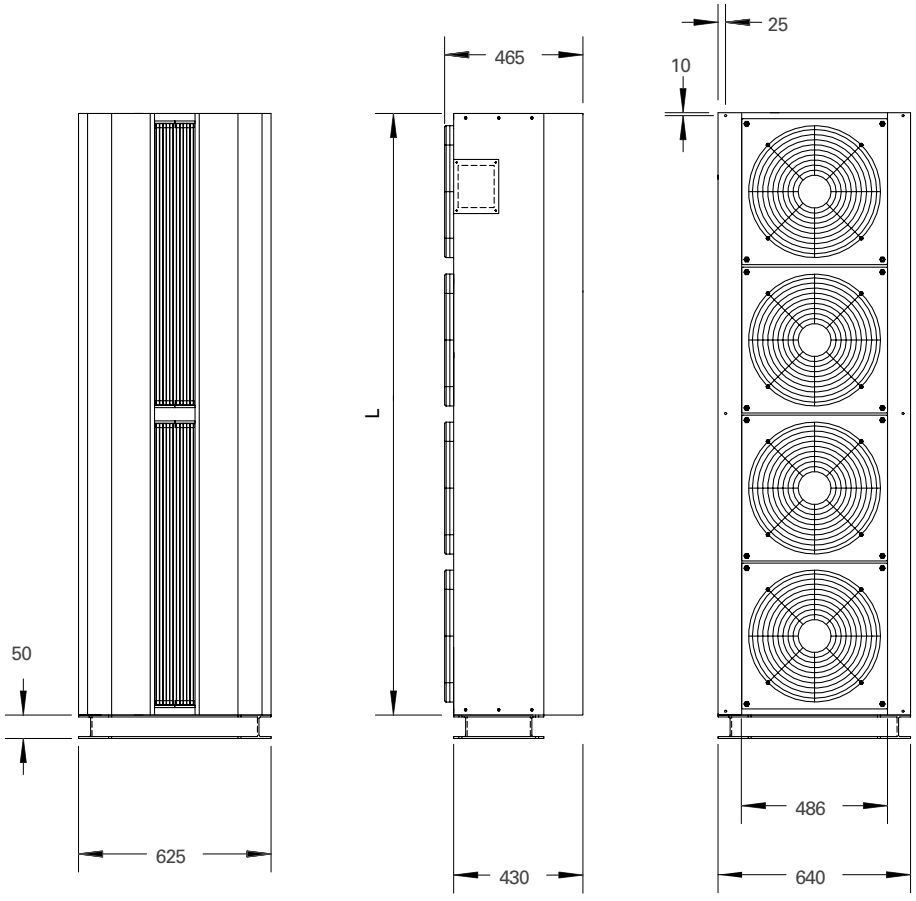
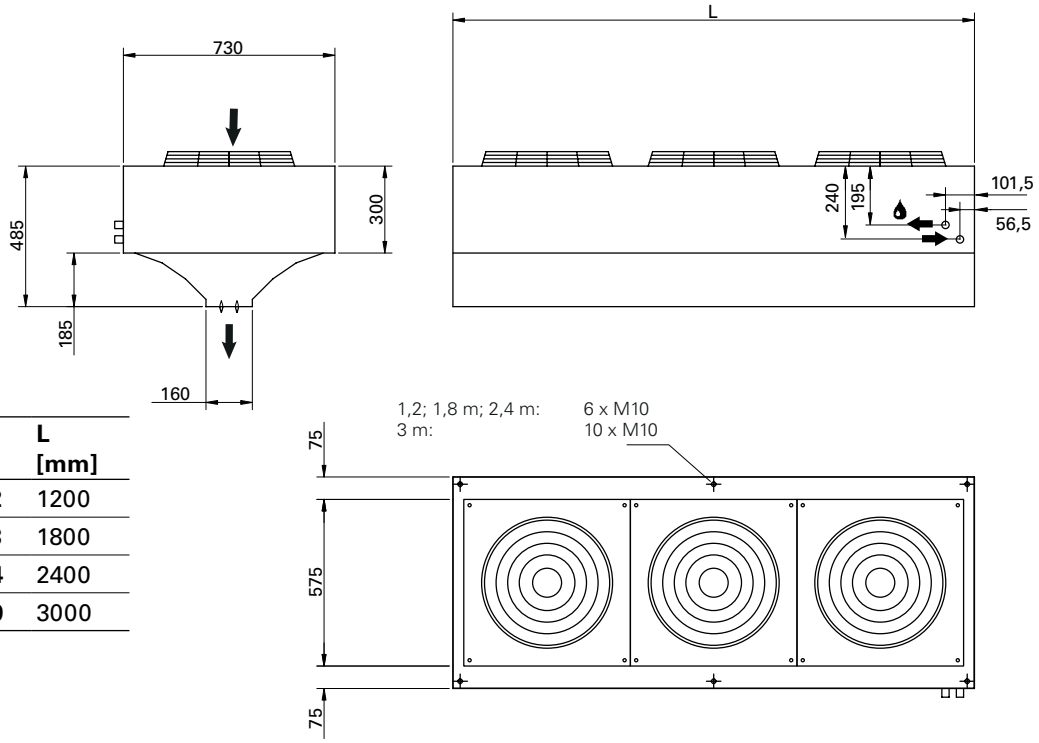


Fig.1a

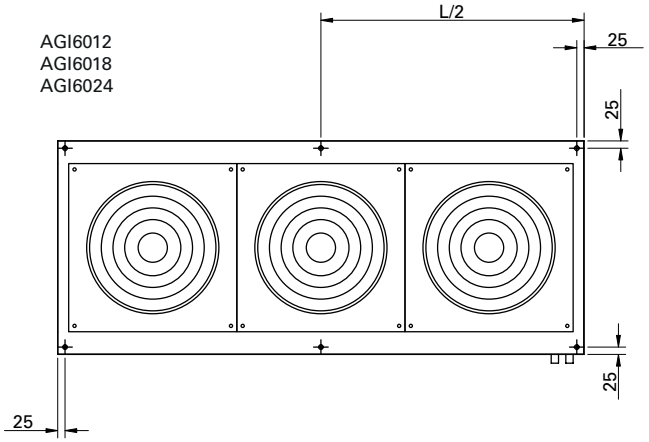
AGI6000

Horizontal mounting



	L [mm]
AGI6012	1200
AGI6018	1800
AGI6024	2400
AGI6030	3000

Inside thread
AGI6012/6018/6024: DN25 (1")
AGI6030: DN32 (1 1/4")



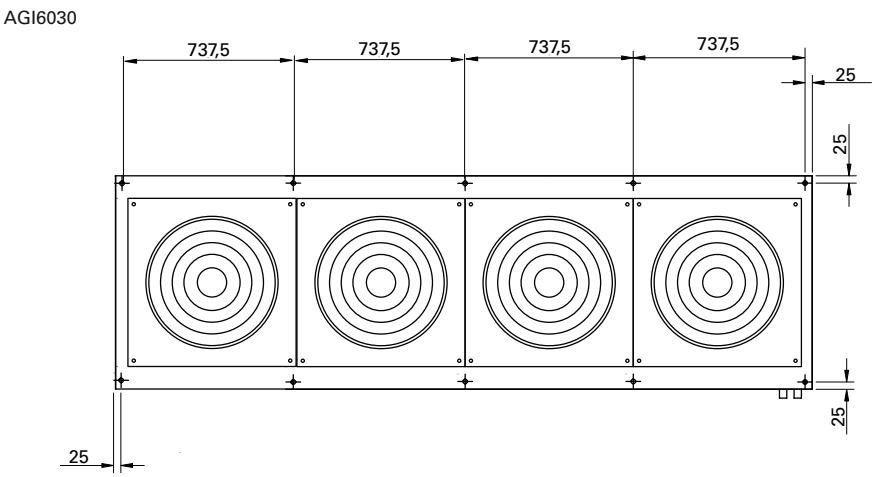
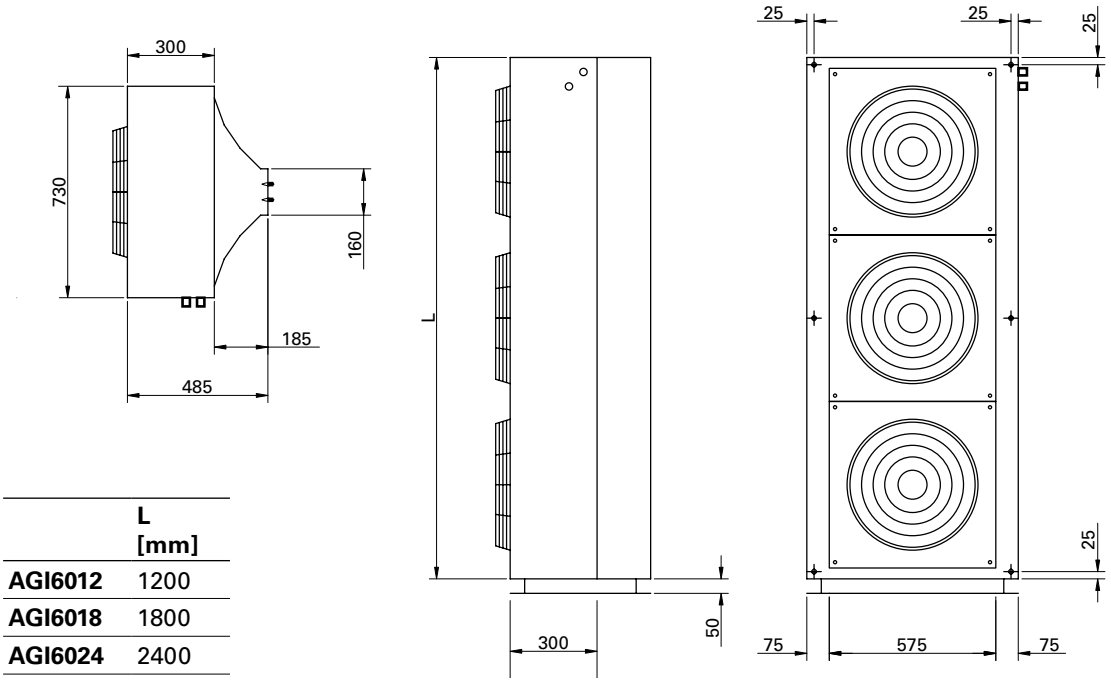


Fig.1b

AGI6000

Vertical mounting

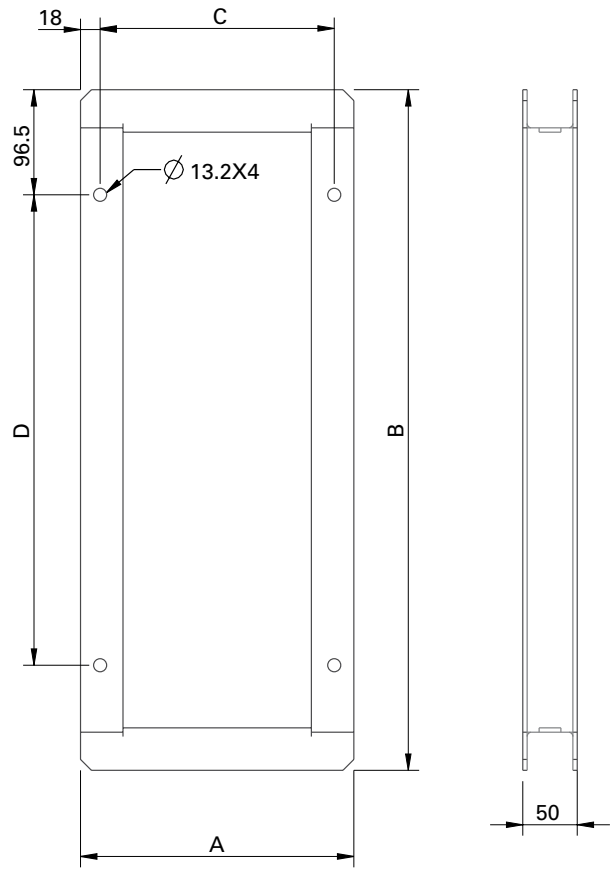


	L [mm]
AGI6012	1200
AGI6018	1800
AGI6024	2400
AGI6030	3000

Inside thread
AGI6012/6018/6024: DN25 (1")
AGI6030: DN32 (1 1/4")

CE

Fig.1c



	A [mm]	B [mm]	C [mm]	D [mm]
AGI4500	251	625	215	432
AGI6000	296	717	260	524

Fig. 2. Floor frame

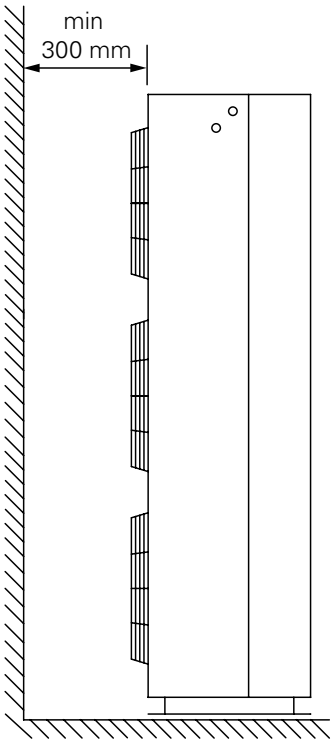


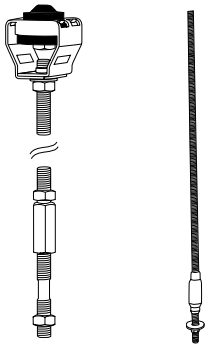
Fig. 3. Minimum distance

Accessories

DBS10-4	AGIH4515
DBS10-6	AGIH4520/4525/4530
GP1010	AGIH6000

GP1010

AGIH6012/6018/6024	6 pcs
AGIH6030	10 pcs

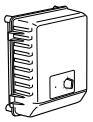


DBS GP1010

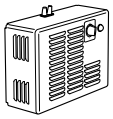
Controls

RTRD3
RTRD5.2
RTRD7
RTRD14
RTRDU7
T10S
RTI2
AGB304
MDC
MDCDC

Level 1



RTRD3/5.2/7



RTRD14

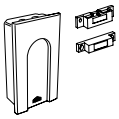
AGB304

T10S (AGI W)

Level 2

RTRDU

RTI2

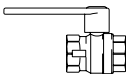


MDC

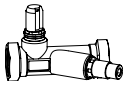
VRS20	DN20
VRS25	DN25
TVVS20	DN20
TVVS25	DN25
SD20	

VRS20/25

TRVS20/25



AV20/25



JVF20/25

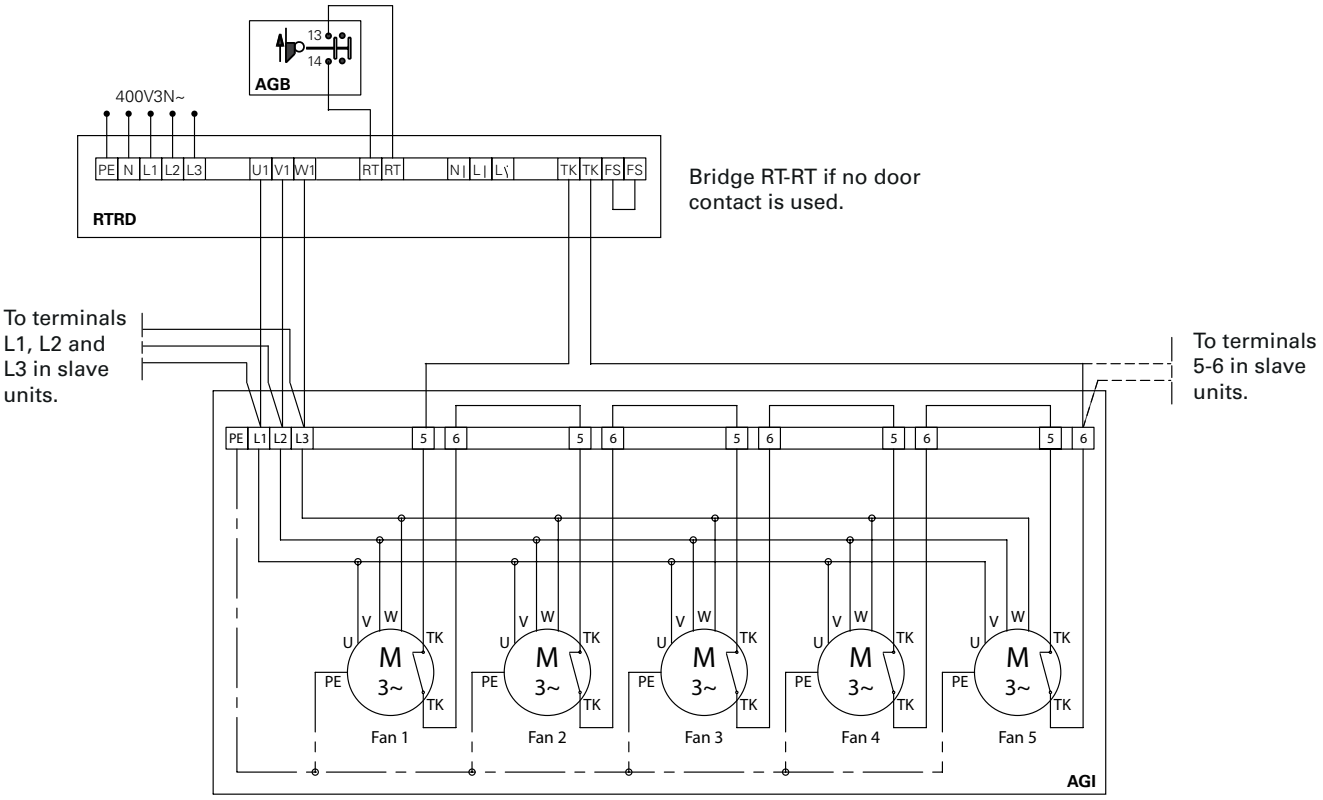
BPV10

SD20

TVVS20/25

SD20

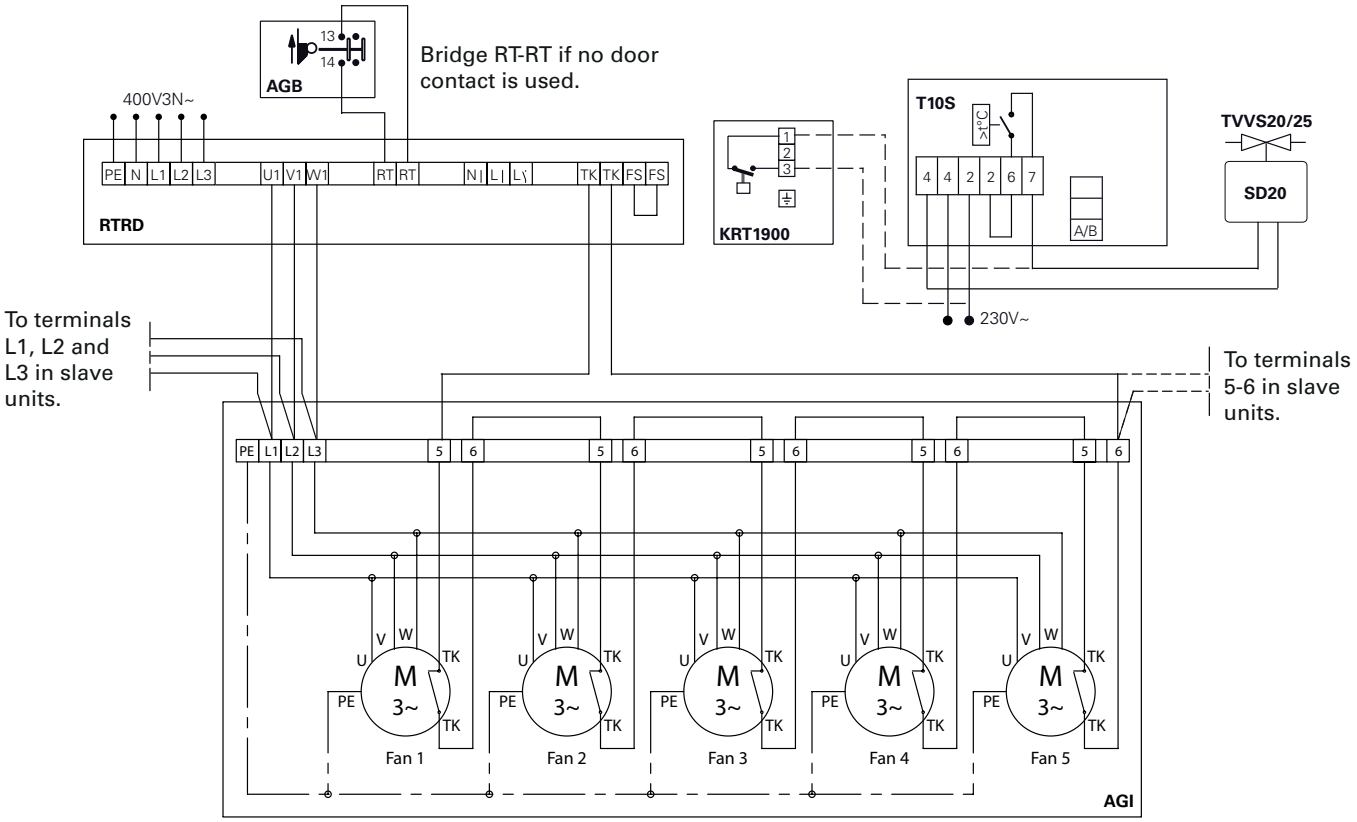
AGI4500/6000 A



	Number of fans
AGI4515/AGI6012	2
AGI4520/AGI6018	3
AGI4525/AGI6024	4
AGI4530/AGI6030	5

AGI4500/6000 W

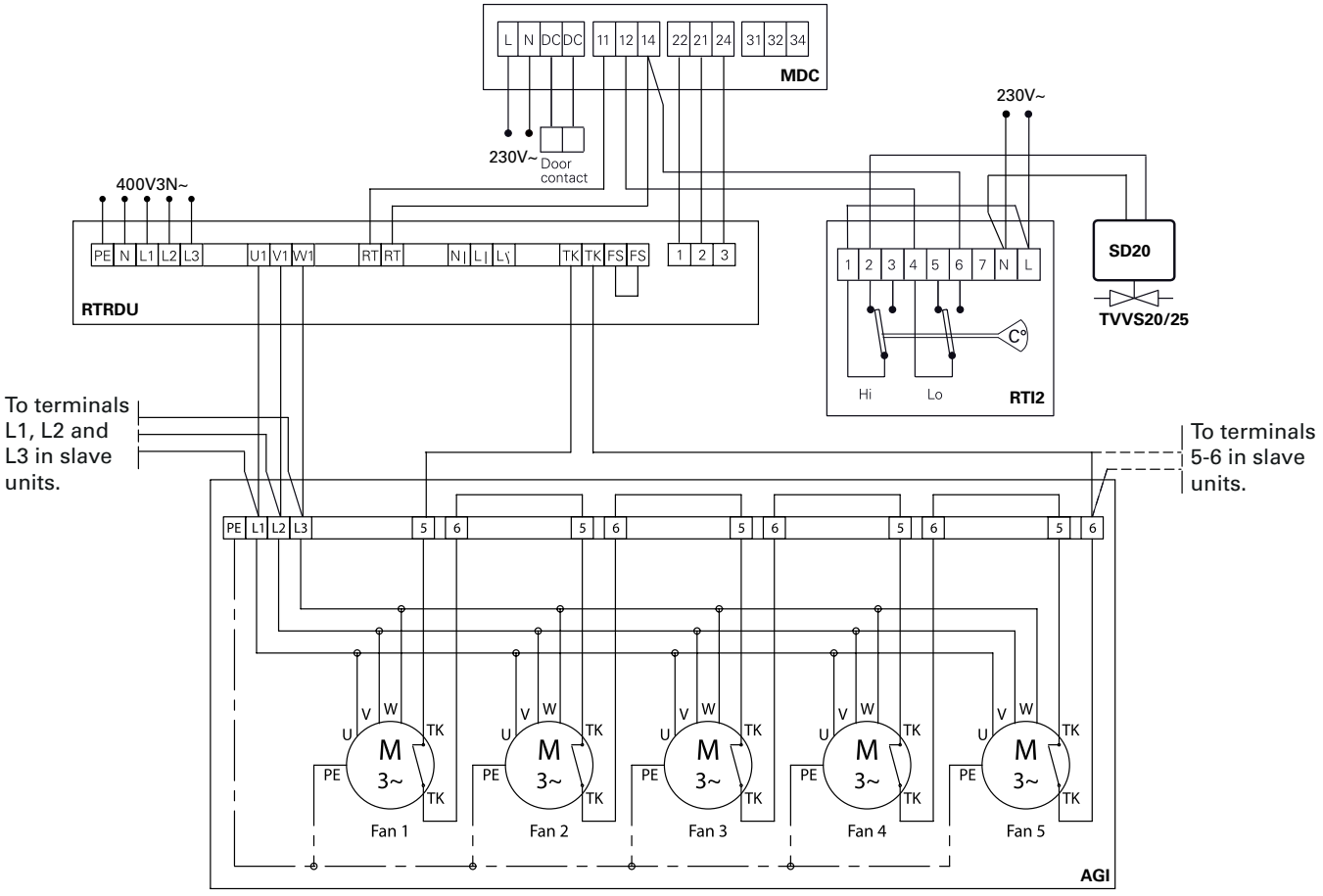
Level 1



	Number of fans
AGI4515/AGI6012	2
AGI4520/AGI6018	3
AGI4525/AGI6024	4
AGI4530/AGI6030	5

AGI4500/6000 W

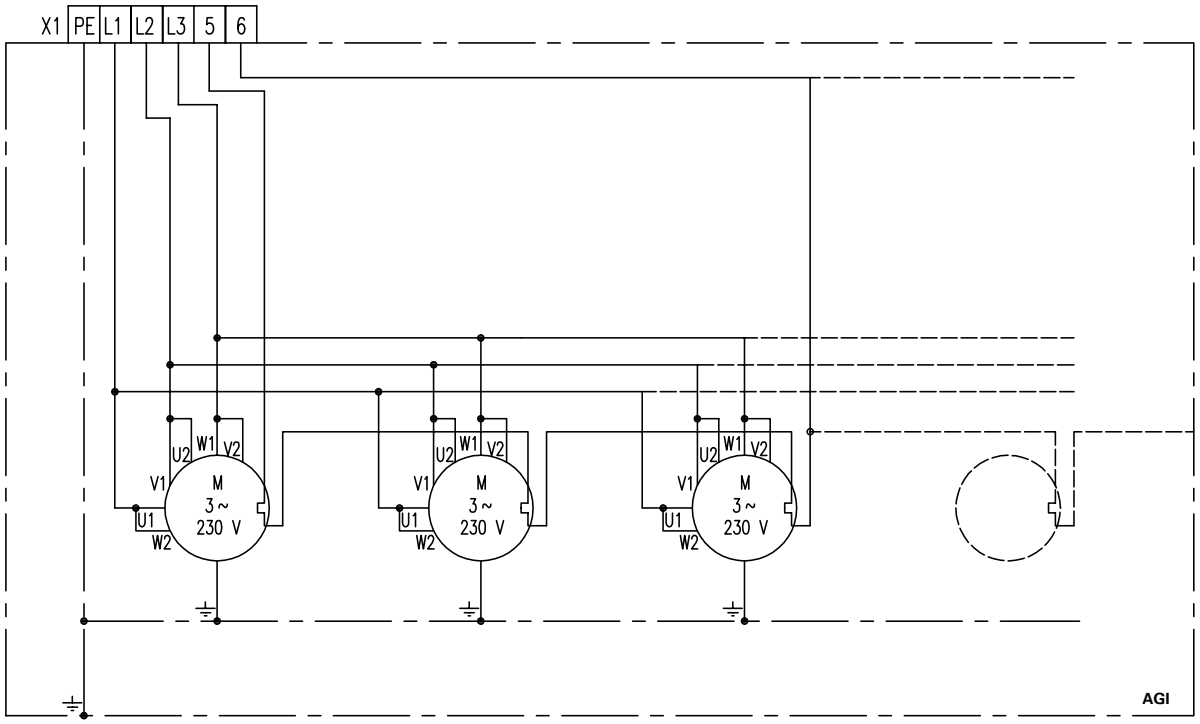
Level 2



	Number of fans
AGI4515/AGI6012	2
AGI4520/AGI6018	3
AGI4525/AGI6024	4
AGI4530/AGI6030	5

AGI4500/6000

230V3~



△ -connected - only for 230V3~

Convertible 400V3~ / 230V3~

Output charts water AGI4500WL

			Supply water temperature: 80 °C Room temperature: +18 °C Outlet air temperature: +35 °C*1				Water temperature: 80/60 °C Room temperature: +18 °C			
Type	**Fan position**	**Airflow**	**Output**	**Return water temp.**	**Water flow**	**Pressure drop**	**Output *2**	**Outlet air temp.**	**Water flow**	**Pressure drop**
		[m³/h]	**[kW]**	**[°C]**	**[l/s]**	**[kPa]**	**[kW]**	**[°C]**	**[l/s]**	**[kPa]**
AGI4515WL	Max	5500	32	43	0,21	0,8	44	42	0,53	4,8
AGI4520WL	Max	7300	42	39	0,25	1,3	61	43	0,75	10,1
AGI4525WL	Max	9100	52	37	0,29	2,1	78	43,5	0,96	18
AGI4530WL	Max	10900	62	37	0,35	2,1	94	44	1,15	20

			Supply water temperature: 70 °C Room temperature: +18 °C Outlet air temperature: +35 °C*1				Water temperature: 70/50 °C Room temperature: +18 °C			
Type	**Fan position**	**Airflow**	**Output**	**Return water temp.**	**Water flow**	**Pressure drop**	**Output *2**	**Outlet air temp.**	**Water flow**	**Pressure drop**
		[m³/h]	**[kW]**	**[°C]**	**[l/s]**	**[kPa]**	**[kW]**	**[°C]**	**[l/s]**	**[kPa]**
AGI4515WL	Max	5500	32	46	0,32	1,8	34	36,5	0,41	3
AGI4520WL	Max	7300	42	43	0,378	2,9	48	37,6	0,59	6,5
AGI4525WL	Max	9100	52	41	0,436	4,3	62	38	0,75	11,7
AGI4530WL	Max	10900	62	41	0,52	4,5	74	38	0,9	13

			Supply water temperature: 60 °C Room temperature: +18 °C Outlet air temperature: +35 °C*1				Water temperature: 60/40 °C Room temperature: +18 °C			
Type	**Fan position**	**Airflow**	**Output**	**Return water temp.**	**Water flow**	**Pressure drop**	**Output *2**	**Outlet air temp.**	**Water flow**	**Pressure drop**
		[m³/h]	**[kW]**	**[°C]**	**[l/s]**	**[kPa]**	**[kW]**	**[°C]**	**[l/s]**	**[kPa]**
AGI4515WL	Max	5500	32	50	0,77	9,7	25	31	0,3	1,7
AGI4520WL	Max	7300	42	48	0,85	13,5	35	32	0,43	3,7
AGI4525WL	Max	9100	51	45	0,83	14,2	46	33	0,55	6,8
AGI4530WL	Max	10900	62	46	1,08	18	55	33	0,66	7,1

			Supply water temperature: 55 °C Room temperature: +18 °C Outlet air temperature: +35 °C*1				Water temperature: 55/35 °C Room temperature: +18 °C			
Type	**Fan position**	**Airflow**	**Output**	**Return water temp.**	**Water flow**	**Pressure drop**	**Output *2**	**Outlet air temp.**	**Water flow**	**Pressure drop**
		[m³/h]	**[kW]**	**[°C]**	**[l/s]**	**[kPa]**	**[kW]**	**[°C]**	**[l/s]**	**[kPa]**
AGI4515WL	Max	5500	-	-	-	-	19	28	0,3	1,7
AGI4520WL	Max	7300	42	50	2,01	46,7	29	30	0,34	2,5
AGI4525WL	Max	9100	-	-	-	-	35	29,5	0,56	7,1
AGI4530WL	Max	10900	-	-	-	-	45	30	0,53	4,9

– = at the current water temperatures and airflows, the air outlet temperature will be less than 35 °C.

*1) Recommended outlet air temperature for good comfort and optimized output.

*2) Nominal output at given supply and return water temperature.

See www.frico.se for additional calculations.

Output charts water AGI4500WH

			Supply water temperature:110 °C Room temperature: +18 °C Outlet air temperature: +35 °C*1				Water temperature: 110/80 °C Room temperature: +18 °C			
Type	**Fan position**	**Airflow**	**Output**	**Return water temp.**	**Water flow**	**Pressure drop**	**Output *2**	**Outlet air temp.**	**Water flow**	**Pressure drop**
		[m³/h]	**[kW]**	**[°C]**	**[l/s]**	**[kPa]**	**[kW]**	**[°C]**	**[l/s]**	**[kPa]**
AGI4515WH	Max	5500	32	49	0,46	0,26	51	45,6	1,52	2,5
AGI4520WH	Max	7300	42	44	0,57	0,45	72	47,3	2,14	5,4
AGI4525WH	Max	9100	52	40,5	0,67	0,67	93	48,3	2,75	9,5
AGI4530WH	Max	10900	62	41	0,8	0,74	111	48,3	3,3	11,0

			Supply water temperature:90 °C Room temperature: +18 °C Outlet air temperature: +35 °C*1				Water temperature: 90/70 °C Room temperature: +18 °C			
Type	**Fan position**	**Airflow**	**Output**	**Return water temp.**	**Water flow**	**Pressure drop**	**Output *2**	**Outlet air temp.**	**Water flow**	**Pressure drop**
		[m³/h]	**[kW]**	**[°C]**	**[l/s]**	**[kPa]**	**[kW]**	**[°C]**	**[l/s]**	**[kPa]**
AGI4515WH	Max	5500	31	53,5	0,21	0,7	42	40,5	0,51	3,8
AGI4520WH	Max	7300	42	49,5	0,26	1,12	58	41,8	0,72	7,9
AGI4525WH	Max	9100	52	46	0,29	1,58	74	42	0,9	10,4
AGI4530WH	Max	10900	63	47	0,36	1,85	90	42,5	1,1	16,1

			Supply water temperature:80 °C Room temperature: +18 °C Outlet air temperature: +35 °C*1				Water temperature: 80/60 °C Room temperature: +18 °C			
Type	**Fan position**	**Airflow**	**Output**	**Return water temp.**	**Water flow**	**Pressure drop**	**Output *2**	**Outlet air temp.**	**Water flow**	**Pressure drop**
		[m³/h]	**[kW]**	**[°C]**	**[l/s]**	**[kPa]**	**[kW]**	**[°C]**	**[l/s]**	**[kPa]**
AGI4515WH	Max	5500	31	56	1,15	1,54	34	36,3	1,49	2,5
AGI4520WH	Max	7300	42	52,5	1,35	2,32	48	37,5	2,11	5,5
AGI4525WH	Max	9100	52	49,5	1,5	3,14	62	38,2	2,72	9,7
AGI4530WH	Max	10900	63	50	1,83	3,65	74	38,2	3,26	11,1

			Supply water temperature:82°C Room temperature: +18 °C Outlet air temperature: +35 °C*1				Water temperature: 82/71 °C Room temperature: +18 °C			
Type	**Fan position**	**Airflow**	**Output**	**Return water temp.**	**Water flow**	**Pressure drop**	**Output *2**	**Outlet air temp.**	**Water flow**	**Pressure drop**
		[m³/h]	**[kW]**	**[°C]**	**[l/s]**	**[kPa]**	**[kW]**	**[°C]**	**[l/s]**	**[kPa]**
AGI4515WH	Max	5500	32	42	0,19	0,7	41	40,1	0,91	11,5
AGI4520WH	Max	7300	42	39	0,24	1,2	57	41,1	1,27	23,7
AGI4525WH	Max	9100	52	36	0,27	1,8	73	41,7	1,62	26,7
AGI4530WH	Max	10900	63	37	0,34	2,0	87	41,8	1,95	27,8

*1) Recommended outlet air temperature for good comfort and optimized output.

*2) Nominal output at given supply and return water temperature.

See www.frico.se for additional calculations.

Output charts water AGI6000WL

			Supply water temperature: 80 °C Room temperature: +18 °C Outlet air temperature: +35 °C*1				Water temperature: 80/60 °C Room temperature: +18 °C			
Type	**Fan position**	**Airflow**	**Output**	**Return water temp.**	**Water flow**	**Pressure drop**	**Output *2**	**Outlet air temp.**	**Water flow**	**Pressure drop**
		[m³/h]	**[kW]**	**[°C]**	**[l/s]**	**[kPa]**	**[kW]**	**[°C]**	**[l/s]**	**[kPa]**
AGI6012WL	Max	6600	38,8	38,0	0,23	6,3	55,1	42,5	0,67	47,8
AGI6018WL	Max	9600	56,4	40,0	0,35	2,4	77,5	41,7	0,95	15,7
AGI6024WL	Max	12600	71,6	38,0	0,42	2,8	103,6	42,1	1,26	21,2
AGI6030WL	Max	15600	90,7	38,0	0,53	1,9	130,1	42,4	1,59	14,6

			Supply water temperature: 70 °C Room temperature: +18 °C Outlet air temperature: +35 °C*1				Water temperature: 70/50 °C Room temperature: +18 °C			
Type	**Fan position**	**Airflow**	**Output**	**Return water temp.**	**Water flow**	**Pressure drop**	**Output *2**	**Outlet air temp.**	**Water flow**	**Pressure drop**
		[m³/h]	**[kW]**	**[°C]**	**[l/s]**	**[kPa]**	**[kW]**	**[°C]**	**[l/s]**	**[kPa]**
AGI6012WL	Max	6600	37,2	41,0	0,31	11,4	43,9	37,5	0,53	31,3
AGI6018WL	Max	9600	55,4	44,0	0,52	5,1	61,6	36,8	0,75	10,2
AGI6024WL	Max	12600	73,8	44,0	0,69	7,0	82,3	37,1	1,00	13,9
AGI6030WL	Max	15600	93,0	44,0	0,87	4,7	103,4	37,4	1,26	9,5

			Supply water temperature: 60 °C Room temperature: +18 °C Outlet air temperature: +35 °C*1				Water temperature: 60/40 °C Room temperature: +18 °C			
Type	**Fan position**	**Airflow**	**Output**	**Return water temp.**	**Water flow**	**Pressure drop**	**Output *2**	**Outlet air temp.**	**Water flow**	**Pressure drop**
		[m³/h]	**[kW]**	**[°C]**	**[l/s]**	**[kPa]**	**[kW]**	**[°C]**	**[l/s]**	**[kPa]**
AGI6012WL	Max	6600	39,4	50,0	0,96	96,0	32,5	32,5	0,39	18,1
AGI6018WL	Max	9600	55,4	50,0	1,35	31,7	45,5	31,9	0,55	5,9
AGI6024WL	Max	12600	74,1	50,0	1,80	42,7	60,7	32,1	0,74	8
AGI6030WL	Max	15600	93,0	50,0	2,26	29,5	76,5	32,4	0,93	5,4

			Supply water temperature: 55 °C Room temperature: +18 °C Outlet air temperature: +35 °C*1				Water temperature: 55/35 °C Room temperature: +18 °C			
Type	**Fan position**	**Airflow**	**Output**	**Return water temp.**	**Water flow**	**Pressure drop**	**Output *2**	**Outlet air temp.**	**Water flow**	**Pressure drop**
		[m³/h]	**[kW]**	**[°C]**	**[l/s]**	**[kPa]**	**[kW]**	**[°C]**	**[l/s]**	**[kPa]**
AGI6012WL	Max	6600	37,3	50,0	2,01	404,9	26,8	29,9	0,32	12,7
AGI6018WL	Max	9600	54,7	53,0	5,89	565,0	37,3	29,4	0,45	4,1
AGI6024WL	Max	12600	73,2	53,0	7,89	728,4	49,6	29,6	0,60	5,6
AGI6030WL	Max	15600	88,3	50,0	4,76	126,1	62,7	29,8	0,76	3,8

*1) Recommended outlet air temperature for good comfort and optimized output.

*2) Nominal output at given supply and return water temperature.

See www.frico.se for additional calculations.

Output charts water AGI6000WH

			Supply water temperature:110 °C Room temperature: +18 °C Outlet air temperature: +35 °C*1				Water temperature: 110/80 °C Room temperature: +18 °C			
Type	**Fan position**	**Airflow**	**Output**	**Return water temp.**	**Water flow**	**Pressure drop**	**Output *2**	**Outlet air temp.**	**Water flow**	**Pressure drop**
		[m³/h]	**[kW]**	**[°C]**	**[l/s]**	**[kPa]**	**[kW]**	**[°C]**	**[l/s]**	**[kPa]**
AGI6012WH	Max	6600	37,3	47,0	0,15	0,9	57,9	43,7	0,48	7,9
AGI6018WH	Max	9600	56,5	47,0	0,22	1,2	87,4	44,7	0,72	10,9
AGI6024WH	Max	12600	71,2	44,0	0,27	1,2	115,9	45	0,95	12,5
AGI6030WH	Max	15600	88,6	44,0	0,33	0,7	145,7	45,4	1,20	8

			Supply water temperature:90 °C Room temperature: +18 °C Outlet air temperature: +35 °C*1				Water temperature: 90/70 °C Room temperature: +18 °C			
Type	**Fan position**	**Airflow**	**Output**	**Return water temp.**	**Water flow**	**Pressure drop**	**Output *2**	**Outlet air temp.**	**Water flow**	**Pressure drop**
		[m³/h]	**[kW]**	**[°C]**	**[l/s]**	**[kPa]**	**[kW]**	**[°C]**	**[l/s]**	**[kPa]**
AGI6012WH	Max	6600	37,5	54,0	0,26	2,5	47	38,9	0,58	11,6
AGI6018WH	Max	9600	56,7	54,0	0,39	3,5	70,9	39,6	0,87	16
AGI6024WH	Max	12600	72,7	52,0	0,47	3,4	94	39,9	1,15	18,4
AGI6030WH	Max	15600	90,9	52,0	0,58	2,1	118,2	40,2	1,45	11,8

			Supply water temperature:80 °C Room temperature: +18 °C Outlet air temperature: +35 °C*1				Water temperature: 80/60 °C Room temperature: +18 °C			
Type	**Fan position**	**Airflow**	**Output**	**Return water temp.**	**Water flow**	**Pressure drop**	**Output *2**	**Outlet air temp.**	**Water flow**	**Pressure drop**
		[m³/h]	**[kW]**	**[°C]**	**[l/s]**	**[kPa]**	**[kW]**	**[°C]**	**[l/s]**	**[kPa]**
AGI6012WH	Max	6600	37,2	58,0	0,40	6,0	38,7	35,2	0,47	8,1
AGI6018WH	Max	9600	56,2	58,0	0,61	8,4	58,4	35,8	0,71	11,2
AGI6024WH	Max	12600	74,7	58,0	0,81	9,7	77,5	36	0,95	12,9
AGI6030WH	Max	15600	88,1	54,0	0,82	4,1	97,4	36,3	1,19	8,2

			Supply water temperature:82°C Room temperature: +18 °C Outlet air temperature: +35 °C*1				Water temperature: 82/71 °C Room temperature: +18 °C			
Type	**Fan position**	**Airflow**	**Output**	**Return water temp.**	**Water flow**	**Pressure drop**	**Output *2**	**Outlet air temp.**	**Water flow**	**Pressure drop**
		[m³/h]	**[kW]**	**[°C]**	**[l/s]**	**[kPa]**	**[kW]**	**[°C]**	**[l/s]**	**[kPa]**
AGI6012WH	Max	6600	38,0	58,0	0,39	5,5	45,4	38,2	1,01	34,6
AGI6018WH	Max	9600	55,7	56,0	0,52	6,2	68,5	38,9	1,53	47,5
AGI6024WH	Max	12600	71,6	54,0	0,62	5,9	90,8	39,1	2,02	54,2
AGI6030WH	Max	15600	89,7	54,0	0,78	3,7	114,3	39,5	2,55	34,9

*1) Recommended outlet air temperature for good comfort and optimized output.

*2) Nominal output at given supply and return water temperature.

See www.frico.se for additional calculations.

Technical specifications AGI4500

Horizontal mounting

Ambient, no heat - AGIH4500 A Horizontal mounting (IP54)

Type	Output [kW]	Airflow [m³/h]	Sound power*1 [dB(A)]	Sound pressure*2 [dB(A)]	Voltage motor [V]	Amperage motor [A]	Length [mm]	Weight [kg]
AGIH4515A	0	5500	75	59	400V3~	1,1	1500	70
AGIH4520A	0	7300	76	60	400V3~	1,5	2000	90
AGIH4525A	0	9100	77	61	400V3~	1,9	2500	110
AGIH4530A	0	10900	78	62	400V3~	2,2	3000	130

Water heat - AGIH4500 WL, coil for low water temperature (≤80 °C) Horizontal mounting (IP54)

Type	Output*4 [kW]	Airflow [m³/h]	Δt*3,4 [°C]	Water volume [l]	Sound power*1 [dB(A)]	Sound pressure*2 [dB(A)]	Voltage motor [V]	Amperage motor [A]	Length [mm]	Weight [kg]
AGIH4515WL	25	5500	13	7,2	75	59	400V3~	1,1	1500	109
AGIH4520WL	35	7300	14	9,7	76	60	400V3~	1,5	2000	141
AGIH4525WL	46	9100	15	12,3	77	61	400V3~	1,9	2500	174
AGIH4530WL	55	10900	15	14,6	78	62	400V3~	2,2	3000	212

Water heat - AGIH4500 WH coil for high water temperature (≥80 °C) Horizontal mounting (IP54)

Type	Output*5 [kW]	Airflow [m³/h]	Δt*3,5 [°C]	Water volume [l]	Sound power*1 [dB(A)]	Sound pressure*2 [dB(A)]	Voltage motor [V]	Amperage motor [A]	Length [mm]	Weight [kg]
AGIH4515WH	34	5500	23	5,0	75	59	400V3~	1,1	1500	97
AGIH4520WH	48	7300	24	6,6	76	60	400V3~	1,5	2000	125
AGIH4525WH	62	9100	24	8,3	77	61	400V3~	1,9	2500	154
AGIH4530WH	74	10900	24	9,9	78	62	400V3~	2,2	3000	186

Vertical mounting

Ambient, no heat - AGIV4500 A Vertical mounting (IP54)

Type	Output [kW]	Airflow [m³/h]	Sound power*1 [dB(A)]	Sound pressure*2 [dB(A)]	Voltage motor [V]	Amperage motor [A]	Height [mm]	Weight [kg]
AGIVR4515A*6	0	5500	75	59	400V3~	1,1	1550	75
AGIVR4520A*6	0	7300	76	60	400V3~	1,5	2050	95
AGIVR4525A*6	0	9100	77	61	400V3~	1,9	2550	115
AGIVR4530A*6	0	10900	78	62	400V3~	2,2	3050	135

Water heat - AGIV4500 WL, coil for low water temperature (≤80 °C) Vertical mounting (IP54)

Type	Output*4 [kW]	Airflow [m³/h]	Δt*3,4 [°C]	Water volume [l]	Sound power*1 [dB(A)]	Sound pressure*2 [dB(A)]	Voltage motor [V]	Amperage motor [A]	Height [mm]	Weight [kg]
AGIVR4515WL*6	25	5500	13	7,2	75	59	400V3~	1,1	1550	114
AGIVR4520WL*6	35	7300	14	9,7	76	60	400V3~	1,5	2050	146
AGIVR4525WL*6	46	9100	15	12,3	77	61	400V3~	1,9	2550	179
AGIVR4530WL*6	55	10900	15	14,6	78	62	400V3~	2,2	3050	217

Water heat - AGIV4500 WH, coil for high water temperature (≥80 °C) Vertical mounting (IP54)

Type	Output*5 [kW]	Airflow [m³/h]	Δt*3,5 [°C]	Water volume [l]	Sound power*1 [dB(A)]	Sound pressure*2 [dB(A)]	Voltage motor [V]	Amperage motor [A]	Height [mm]	Weight [kg]
AGIVR4515WH*6	34	5500	23	5,0	75	59	400V3~	1,1	1550	102
AGIVR4520WH*6	48	7300	24	6,6	76	60	400V3~	1,5	2050	130
AGIVR4525WH*6	62	9100	24	8,3	77	61	400V3~	1,9	2550	159
AGIVR4530WH*6	74	10900	24	9,9	78	62	400V3~	2,2	3050	191

*1) Sound power (L_{WA}) measurements according to ISO 27327-2: 2014, Installation type E.

*2) Sound pressure (L_{pA}). Conditions: Distance to the unit 5 metres. Directional factor: 2. Equivalent absorption area: 200 m².

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

*4) Applicable at water temperature 60/40 °C, air temperature, in +18 °C.

*5) Applicable at water temperature 80/60 °C, air temperature, in +18 °C.

*6) The standard vertical unit is placed on the right side of the opening (VR). Vertical units to be placed on the left side (VL) can be ordered as AGIVL45xxxx.

Technical specifications AGI6000

Horizontal mounting

Ambient, no heat - AGIH6000 A Horizontal mounting (IP54)

Type	Output [kW]	Airflow [m³/h]	Sound power*1 [dB(A)]	Sound pressure*2 [dB(A)]	Voltage motor [V]	Amperage motor [A]	Length [mm]	Weight [kg]
AGIH6012A	0	6600	85	69	400V3~	2,0	1200	51
AGIH6018A	0	9600	87	71	400V3~	2,8	1800	75
AGIH6024A	0	12600	88	72	400V3~	3,7	2400	97
AGIH6030A	0	15600	89	73	400V3~	4,7	3000	120

Water heat - AGIH6000 WL, coil for low water temperature (≤80 °C) Horizontal mounting (IP54)

Type	Output*4 [kW]	Airflow [m³/h]	Δt*3,4 [°C]	Water volume [l]	Sound power*1 [dB(A)]	Sound pressure*2 [dB(A)]	Voltage motor [V]	Amperage motor [A]	Length [mm]	Weight [kg]
AGIH6012WL	33	6600	15	6,6	85	69	400V3~	2,0	1200	72
AGIH6018WL	46	9600	14	10,1	87	71	400V3~	2,8	1800	112
AGIH6024WL	61	12600	14	14,0	88	72	400V3~	3,7	2400	150
AGIH6030WL	77	15600	14	17,6	89	73	400V3~	4,7	3000	185

Water heat - AGIH6000 WH coil for high water temperature (≥80 °C) Horizontal mounting (IP54)

Type	Output*5 [kW]	Airflow [m³/h]	Δt*3,5 [°C]	Water volume [l]	Sound power*1 [dB(A)]	Sound pressure*2 [dB(A)]	Voltage motor [V]	Amperage motor [A]	Length [mm]	Weight [kg]
AGIH6012WH	39	6600	17	4,6	85	69	400V3~	2,0	1200	65
AGIH6018WH	58	9600	18	7,0	87	71	400V3~	2,8	1800	98
AGIH6024WH	78	12600	18	9,5	88	72	400V3~	3,7	2400	128
AGIH6030WH	97	15600	18	12,0	89	73	400V3~	4,7	3000	158

Vertical mounting

Ambient, no heat - AGIV6000 A Vertical mounting (IP54)

Type	Output [kW]	Airflow [m³/h]	Sound power*1 [dB(A)]	Sound pressure*2 [dB(A)]	Voltage motor [V]	Amperage motor [A]	Height [mm]	Weight [kg]
AGIV6012A	0	6600	85	69	400V3~	2,0	1250	56
AGIV6018A	0	9600	87	71	400V3~	2,8	1850	80
AGIV6024A	0	12600	88	72	400V3~	3,7	2450	102
AGIV6030A	0	15600	89	73	400V3~	4,7	3050	125

Water heat - AGIV6000 WL, coil for low water temperature (≤80 °C) Vertical mounting (IP54)

Type	Output*4 [kW]	Airflow [m³/h]	Δt*3,4 [°C]	Water volume [l]	Sound power*1 [dB(A)]	Sound pressure*2 [dB(A)]	Voltage motor [V]	Amperage motor [A]	Height [mm]	Weight [kg]
AGIV6012WL	33	6600	15	6,6	85	69	400V3~	2,0	1250	77
AGIV6018WL	46	9600	14	10,1	87	71	400V3~	2,8	1850	119
AGIV6024WL	61	12600	14	14,0	88	72	400V3~	3,7	2450	157
AGIV6030WL	77	15600	14	17,6	89	73	400V3~	4,7	3050	192

Water heat - AGIV6000 WH, coil for high water temperature (≥80 °C) Vertical mounting (IP54)

Type	Output*5 [kW]	Airflow [m³/h]	Δt*3,5 [°C]	Water volume [l]	Sound power*1 [dB(A)]	Sound pressure*2 [dB(A)]	Voltage motor [V]	Amperage motor [A]	Height [mm]	Weight [kg]
AGIV6012WH	39	6600	17	4,6	85	69	400V3~	2,0	1250	70
AGIV6018WH	58	9600	18	7,0	87	71	400V3~	2,8	1850	103
AGIV6024WH	78	12600	18	9,5	88	72	400V3~	3,7	2450	133
AGIV6030WH	97	15600	18	12,0	89	73	400V3~	4,7	3050	163

*1) Sound power (L_{WA}) measurements according to ISO 27327-2: 2014, Installation type E.

*2) Sound pressure (L_{pA}). Conditions: Distance to the unit 5 metres. Directional factor: 2. Equivalent absorption area: 200 m².

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

*4) Applicable at water temperature 60/40 °C, air temperature, in +18 °C.

*5) Applicable at water temperature 80/60 °C, air temperature, in +18 °C.

Installation and operating instructions

General Instructions

Read these instructions carefully before installation and use. Keep this manual for future reference.
The product may only be used as set out in the assembly and operating instructions. The guarantee is only valid if the product is used in the manner intended and in accordance with the instructions.

Application area

AGI is a robust air curtain intended for vertical or horizontal installation in large doorways such as logistic centres, loading bays and warehouses. Recommended installation height AGI4500: 4,5 m and AGI6000: 6 m. The air curtain is available without heat and with water heating. Protection class: IP54.

Operation

Air is drawn in at the top/rear of the unit and blown out downwards/outwards so that it shields the door opening and minimizes heat loss. To achieve the optimum air curtain effect the unit must extend the full height/width of the door opening.

The grille nearest the door is adjustable and is normally angled outwards to achieve the best protection against incoming cold air.

The efficiency of the air curtain depends on the air temperature, pressure differences across the doorway and any wind pressure.

NOTE! Negative pressure in the building considerably reduces the efficiency of the air curtain. The ventilation should therefore be balanced.

Mounting

The air curtain range includes variants for horizontal and vertical installation. See dimension drawings.

Horizontal mounting

The air curtain is installed horizontally with the supply air grille facing downwards as close to the door as possible. The unit is suspended from the ceiling by threaded rods. For the protection of wider doorways, several units can be mounted next to each other.

Vertical mounting

The air curtain is mounted vertically as close as possible to the door. For the best effect air curtains should be placed on both sides of the opening.
The unit can be turned and positioned on either side of the door. The air curtain is mounted on a floor frame which is included. The edging is attached horizontal to the floor using fasteners appropriate for the surface. See Fig.2.

Two units can be mounted directly on top of each other, they are fastened together with supplied fastening plates. The air curtain must be secured to wall or ceiling.

Electrical installation

The installation, which should be preceded by an omnipolar switch with a contact separation of at least 3 mm, should only be wired by a competent electrician and in accordance with the latest edition of IEE wiring regulations.

Control (400V3~) is connected to the terminal block in the junction box. The cable glands used must meet the protection class requirements. See wiring diagrams.

Connecting the water coil (W)

The installation must be carried out by an authorised installer.

The water coil has copper tubes with aluminium fins and is suitable for connection to a closed water heating system. The heating coil must not be connected to a mains pressure water system or an open water system.

Note that the unit shall be preceded by a regulating valve, see Frico valve kit.
The water coil is connected via connections with dimensions as given in the table (see diagram) on the side of the unit. The connections to the heating coil must be equipped with shut off valves to allow problem free removal.

Adjustment of the air curtain and air flow

The direction and speed of the air flow should be adjusted considering the load on the opening. Pressure forces affect the air stream and make it bend inwards into the premises

(when the premises are heated and the outdoor air is cold).

The air stream should therefore be directed outwards to withstand the load. Generally speaking, the higher the load, the greater the angle that is needed.

Basic setting fan speed

The fan speed when the door is open is set using the control. Note that the air flow direction and fan speed may need fine adjustment depending on the loading of the door.

Filter (W)

The distance between the coil plates in combination with the hole diameter of the intake grille protects against dirt and blockage. This normally makes a separate filter unnecessary.

Service, repairs and maintenance

For all service, repair and maintenance disconnect the power supply for all connections.

Maintenance

Since fan motors and other components are maintenance free, no maintenance other than cleaning is necessary. The level of cleaning can vary depending on local conditions. Undertake cleaning at least twice a year. Inlet and exhaust grilles, impeller and elements can be vacuum cleaned or wiped using a damp cloth. Use a brush when vacuuming to prevent damaging sensitive parts. Avoid the use of strong alkaline or acidic cleaning agents.

Overheating

All motors are equipped with an integral thermal safety cut-out. This will operate, stopping the air curtain should the motor temperature rise too high. The cut-out will automatically reset when the motor temperature has returned to within the motor's operating limits.

Fan replacement

1. Determine which of the fans is not functioning.
2. Disconnect the cables to the relevant fan.
3. Remove the screws securing the fan and lift the fan out.
4. Install the new fan as above in reverse order.

Replacing the water coil (W)

1. Shut off the water supply to the unit.
2. Disconnect the connections to the water coil.
3. Remove the mounting screws securing the coil in the unit and lift the coil out.
4. Install the new coil in reverse order to the above.

Draining the water coil (W)

The drain valve is on the underside of the coil on the connector side.

Trouble shooting

If the fans are not working or do not blow properly, check the following:

- Operating power supply to the unit; check fuses, circuit-breaker, time switch/ thermostat (if any) that starts and stops the unit.
- That the air flow selector is correctly set.
- That the position limit switch is working.
- That the overheat protection for the motors has not been deployed.
- That the intake grille/filter is not dirty.

If there is no heat, check the following:

- Settings for thermostat, omnipolar swtitch etc are set so the unit can be expected to provide heat.

For units with water coil, also check the following:

- That the water coil is air free.
- That there is enough water flow.
- That incoming water is heated enough.

If the fault cannot be rectified, please contact a qualified service technician.

Packaging
Packaging materials are chosen with consideration to environment and are therefore recyclable.

Handling of product at end of working life
This product may contain substances necessary for functionality of product but potentially dangerous for the environment. The product should not be disposed mixed with general household waste but delivered to a designated collection point for environmental recycling. Please contact local authority for further details of your nearest designated collection point.

Safety
- *Keep the areas around the air intake and exhaust grilles free from possible obstructions!*
- *Lifting equipment must be used to lift the unit.*
- *This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.*
- *Children of less than 3 years should be kept away unless continuously supervised.*
- *Children aged from 3 years and less than 8 years shall only switch on/off the appliance provided that it has been placed or installed in its intended normal operating position and they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.*
- *Children aged from 3 years and less than 8 years shall not plug in, regulate and clean the appliance or perform user maintenance.*

CAUTION — Some parts of this product can become very hot and cause burns. Particular attention has to be given where children and vulnerable people are present.

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