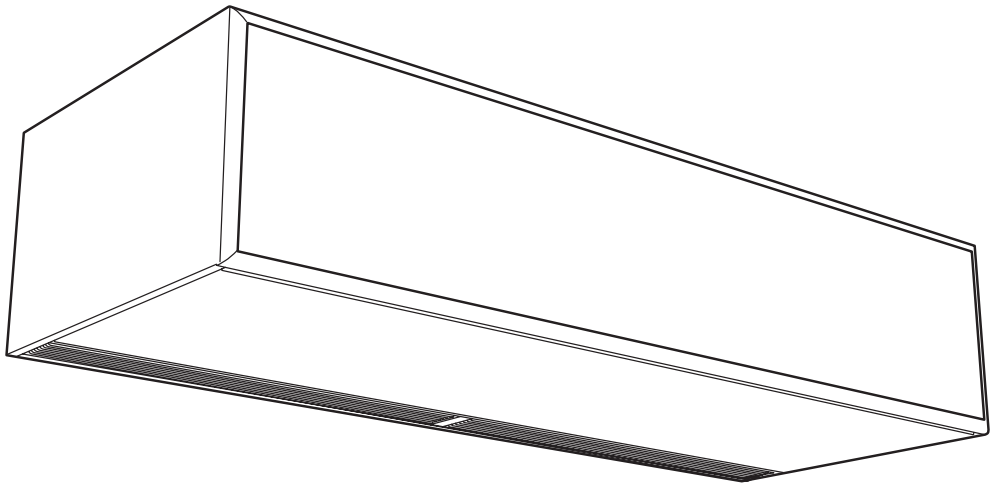
Original instructions

AGS5000/6000



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

GB **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. Pour la traduction des textes, 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.**

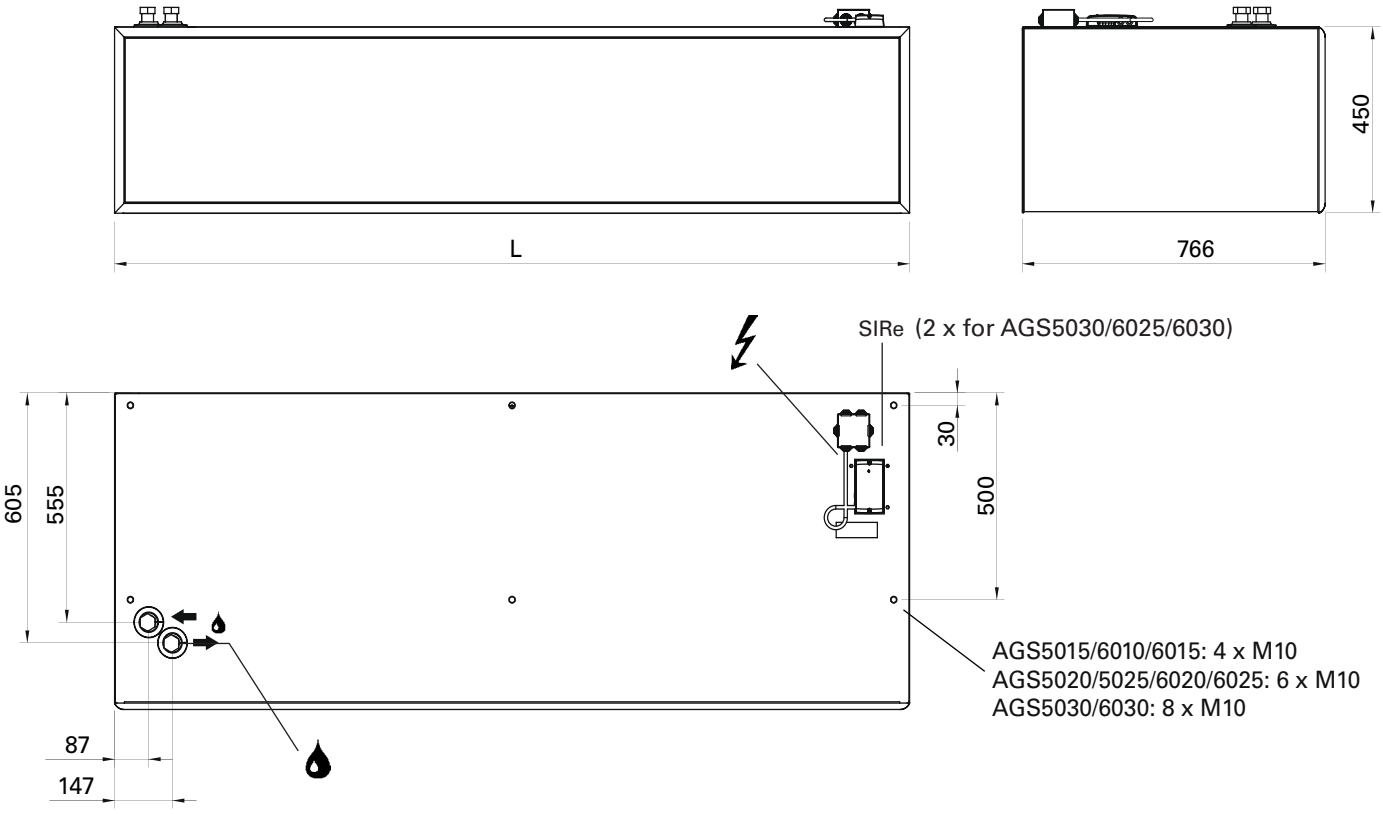
NL **De inleidende pagina's bevatten hoofdzakelijk afbeeldingen. Voor een vertaling van de gebruikte Engelse teksten, zie de pagina's van de resp. taal.**

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.**

AGS5000/6000



	L [mm]
AGS6010	1010
AGS5015/6015	1515
AGS5020/6020	2010
AGS5025/6025	2520
AGS5030/6030	3030

Inside thread

	WL	WH
AGS5015	DN25 (1")	DN20 (3/4")
AGS5020	DN32 (1 1/4")	DN25 (1")
AGS5025	DN32 (1 1/4")	DN32 (1 1/4")
AGS5030	DN40 (1 1/2")	DN32 (1 1/4")
AGS6010	DN25 (1")	DN25 (1")
AGS6015	DN25 (1")	DN20 (3/4")
AGS6020	DN32 (1 1/4")	DN25 (1")
AGS6025	DN32 (1 1/4")	DN32 (1 1/4")
AGS6030	DN40 (1 1/2")	DN32 (1 1/4")

Fig.1 Dimensions

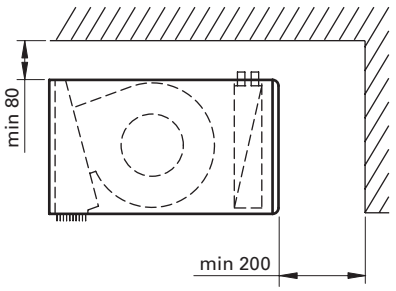


Fig.2 Minimum distance

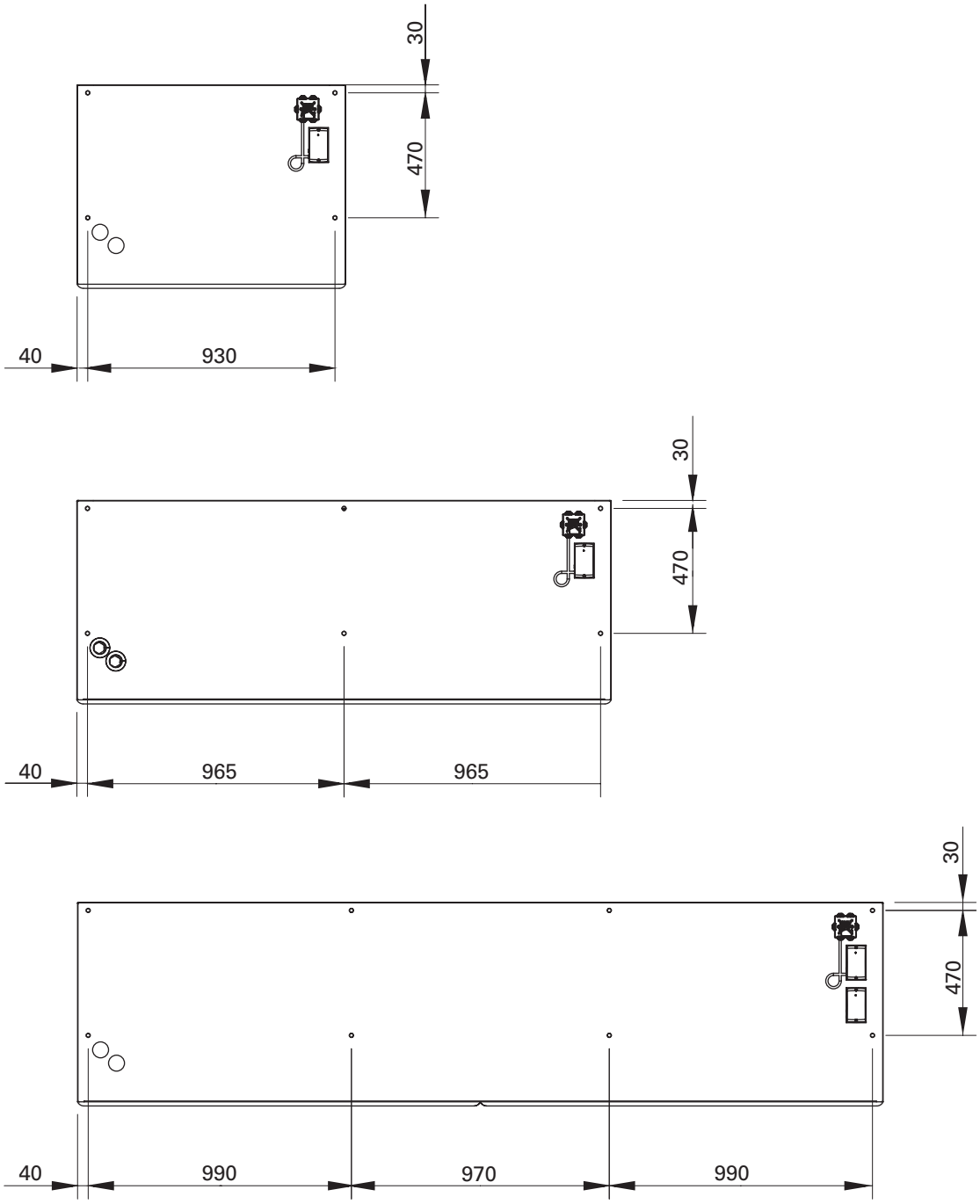


Fig. 3: M10-holes for mounting.

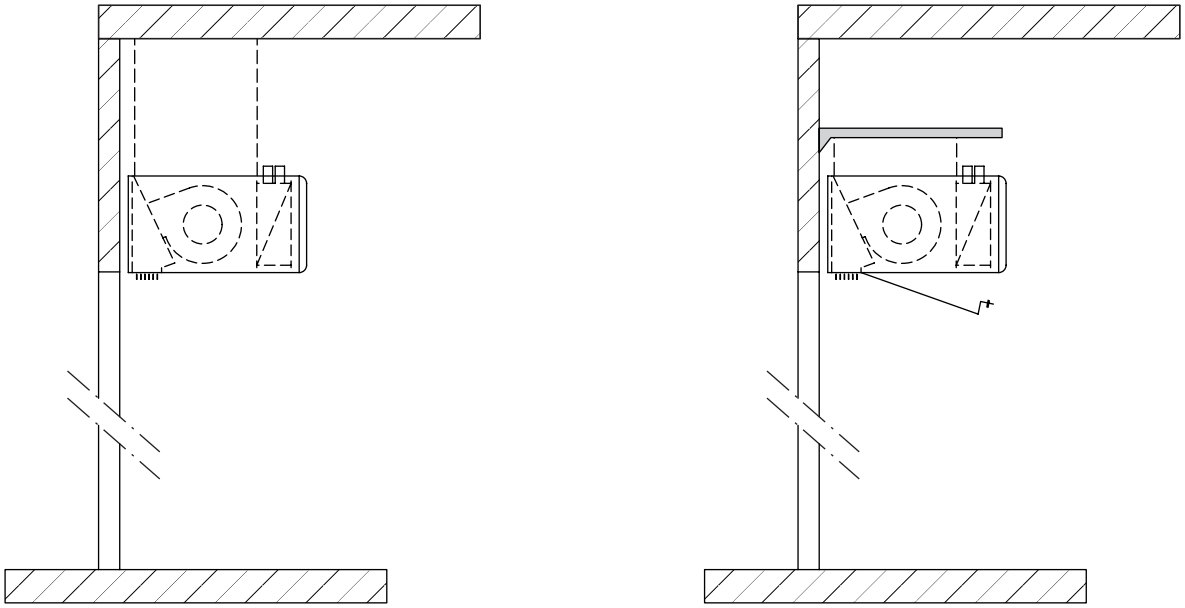


Fig.4 Installation alternatives

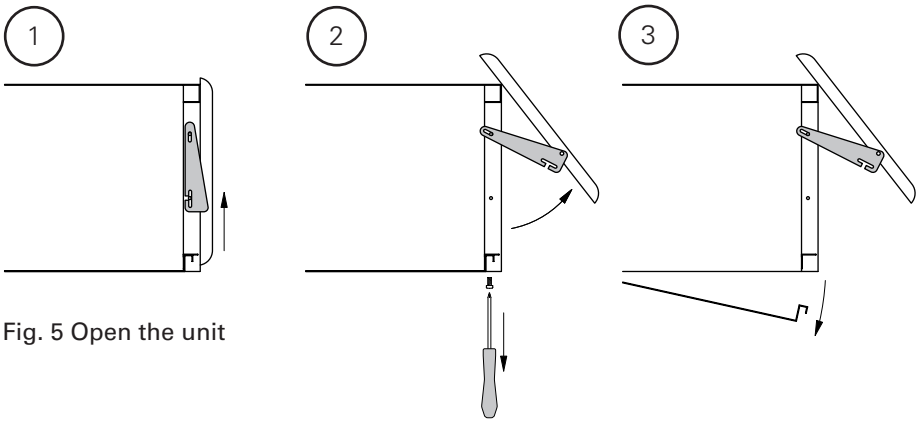
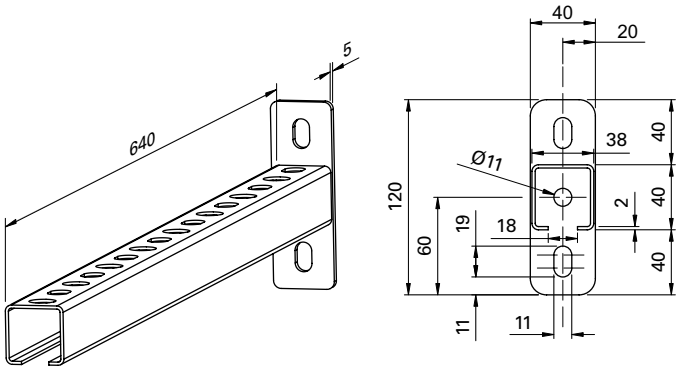


Fig. 5 Open the unit

AGS5000/6000+ GWB640



Type	Wall bracket GWB640
AGS5015	2 pcs
AGS5020	3 pcs
AGS5025	3 pcs
AGS5030	4 pcs
AGS6010	2 pcs
AGS6015	2 pcs
AGS6020	3 pcs
AGS6025	3 pcs
AGS6030	4 pcs

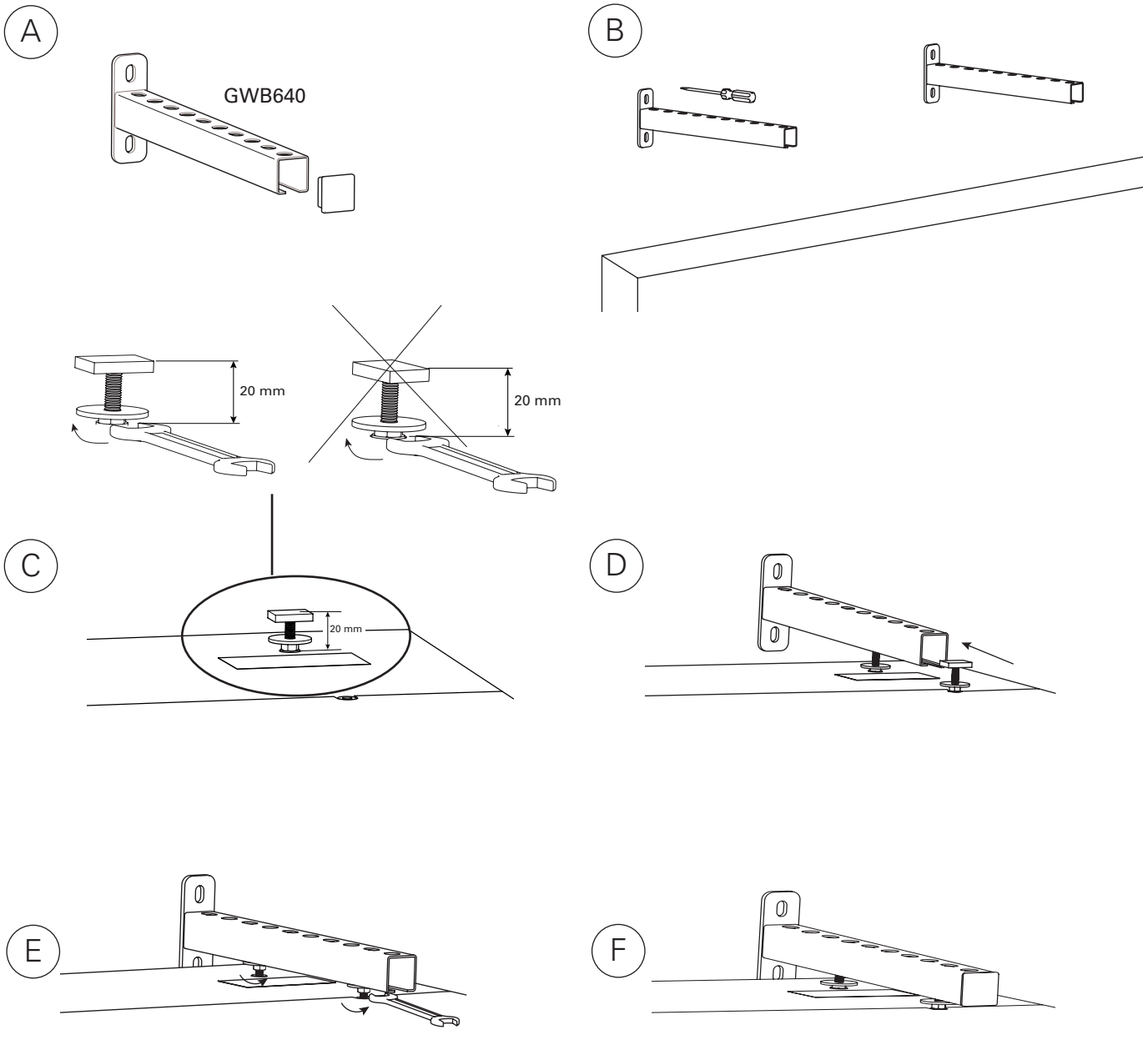
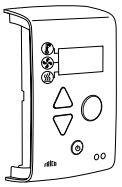


Fig.6 Mounting bracket GWB640

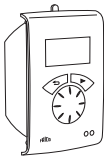
Accessories

SIRe

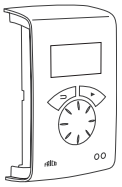
SIReB			
SIReAC			
SIReAA			
SIReRTX	673 09 22	70x33x23 mm	
SIReUR	673 09 21	114x70x50 mm	
SIReWTA			
SIReCJ4			
SIReCJ6			
SIReCC603	673 09 23		3 m
SIReCC605	673 09 24		5 m
SIReCC610	673 09 25		10 m
SIReCC615	673 09 26		15 m
SIReCC403	673 09 27		3 m
SIReCC405	673 09 28		5 m
SIReCC410	673 09 29		10 m
SIReCC415	673 09 30		15



SIReB

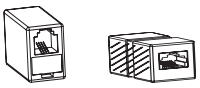


SIReUR



SIReAC/SIReAA

SIReWTA

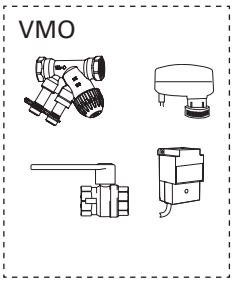


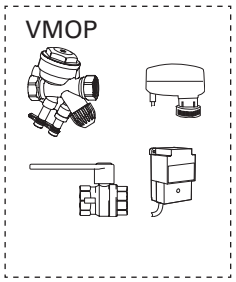
SIReCJ4/SIReCJ6

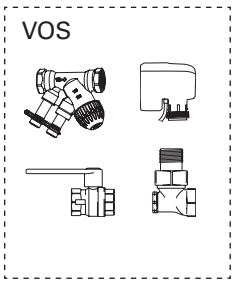
SIReRTX

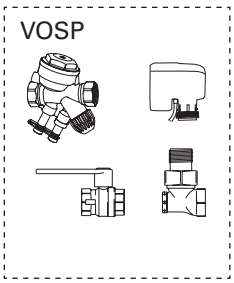
SIReCC

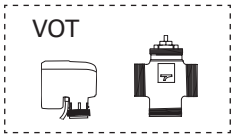
Type	RSK-nr	Connection
VMO20	673 09 49	DN20
VMO25	673 09 50	DN25
VMOP20	673 09 53	DN20
VMOP25	673 09 54	DN25
VOS20	673 09 37	DN20
VOS25	673 09 38	DN25
VOSP20	673 09 45	DN20
VOSP25	673 09 46	DN25
VOT20		DN20
VOT25		DN25
VMT20		DN20
VMT25		DN25
VAT	482 98 30	



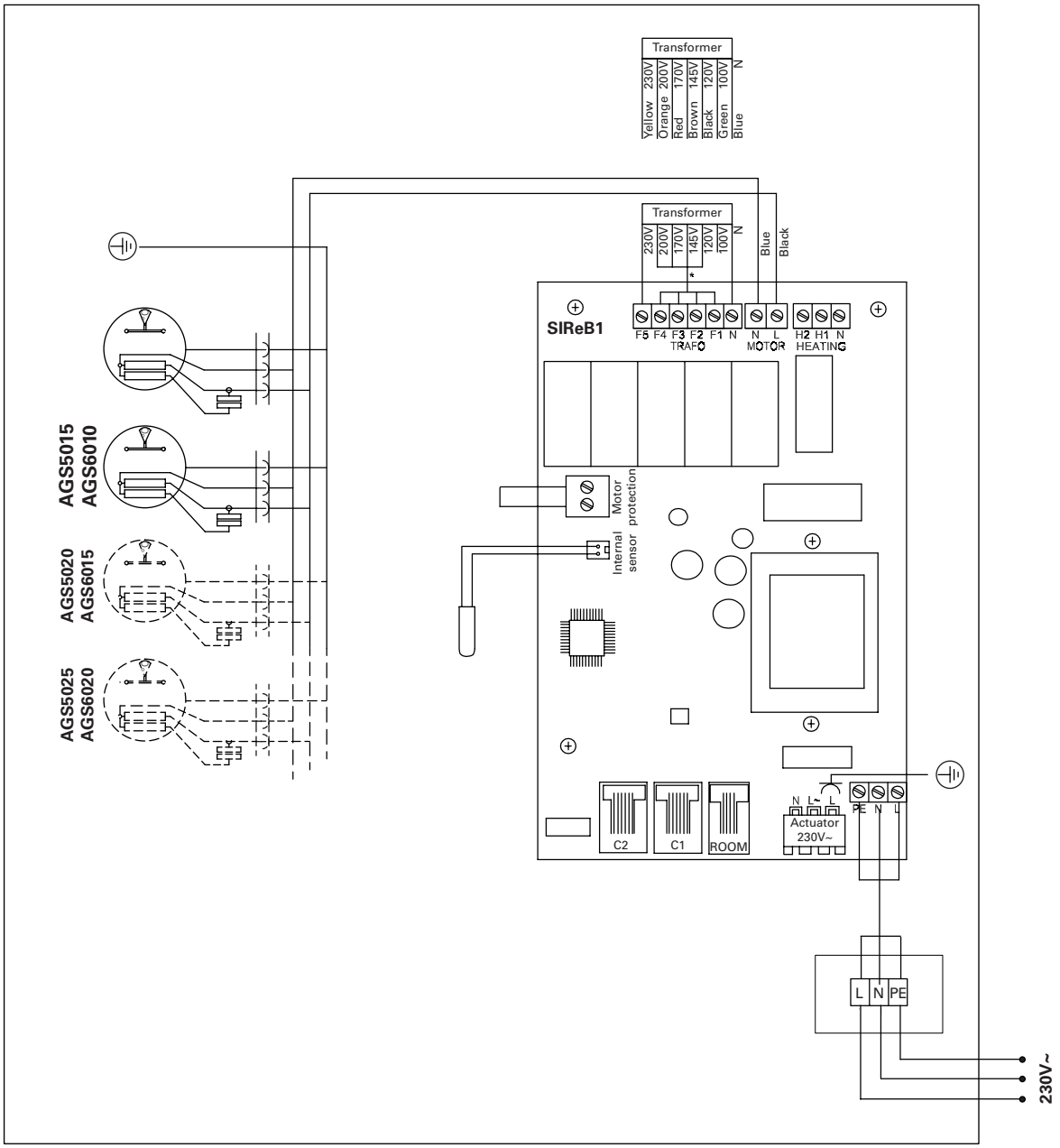




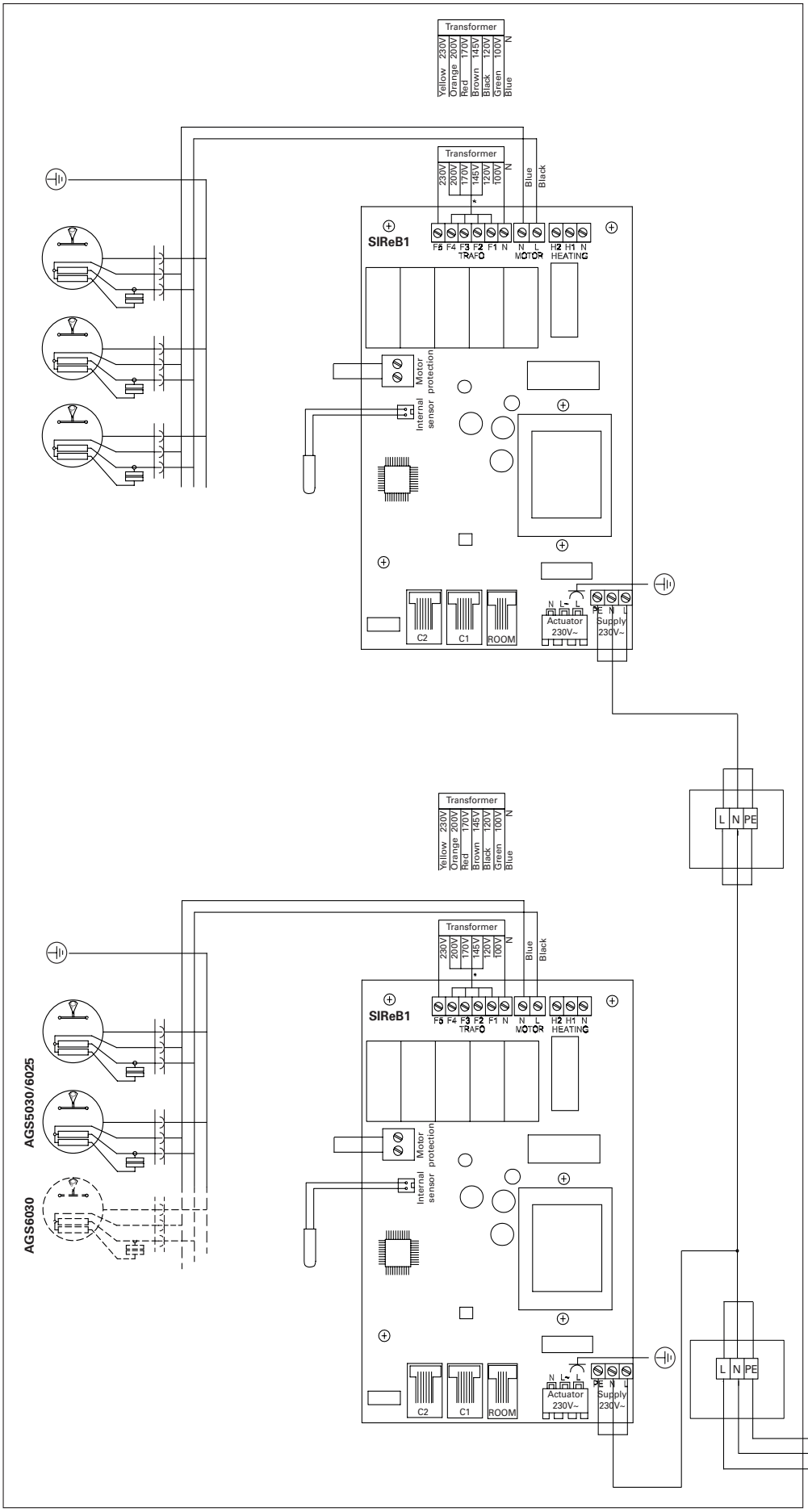




AGS5015/5020/5025
AGS6010/6015/6020

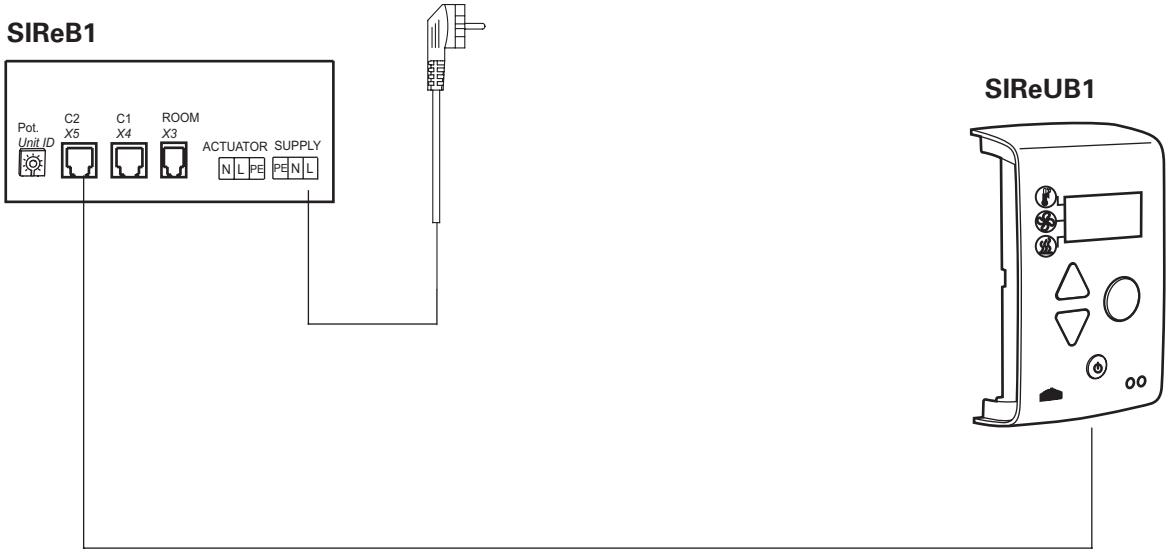


AGS5030
AGS6025/6030

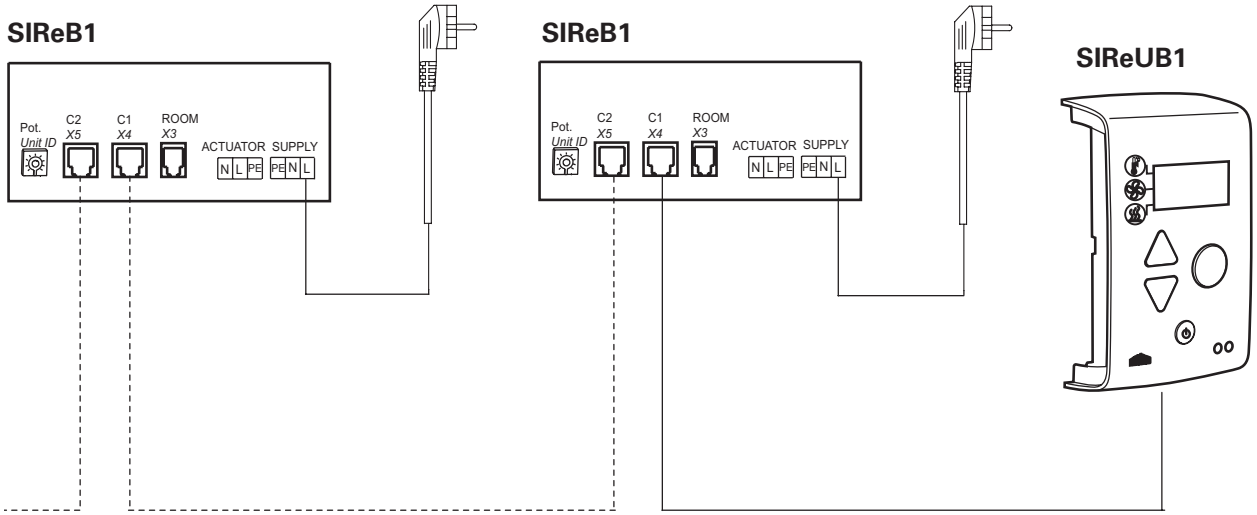


SIReB Basic

AGS5000 A
AGS6000A



SIReB Basic - Parallel connection

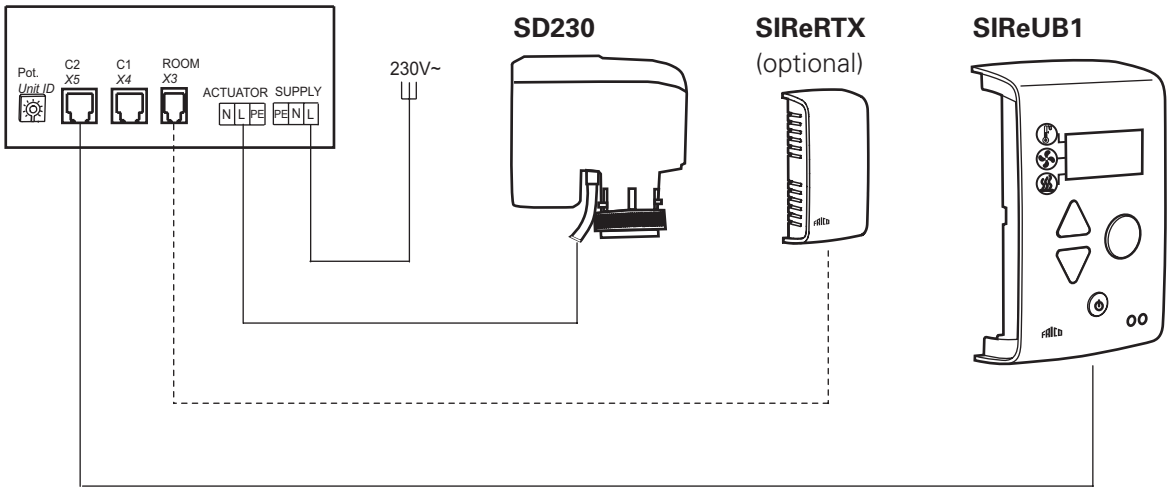


Wiring diagrams for SIReAC Competent, see manual for SIRe.

SIReB Basic

AGS5000 W
AGS6000W

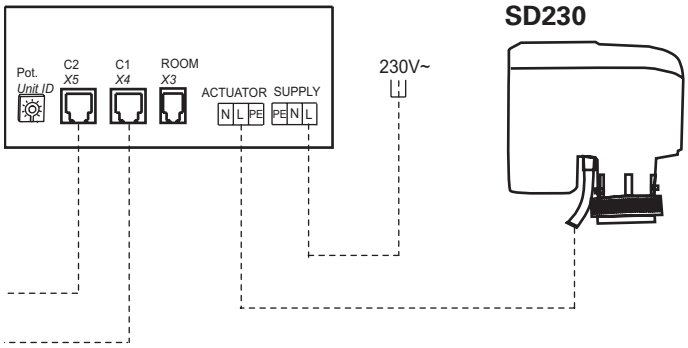
SIReB1



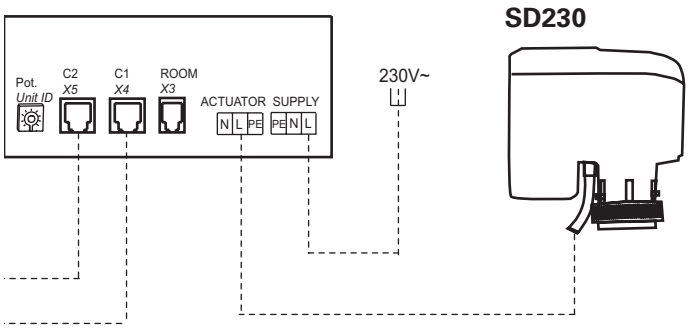
SIReB Basic - Parallel connection

AGS5000 W
AGS6000W

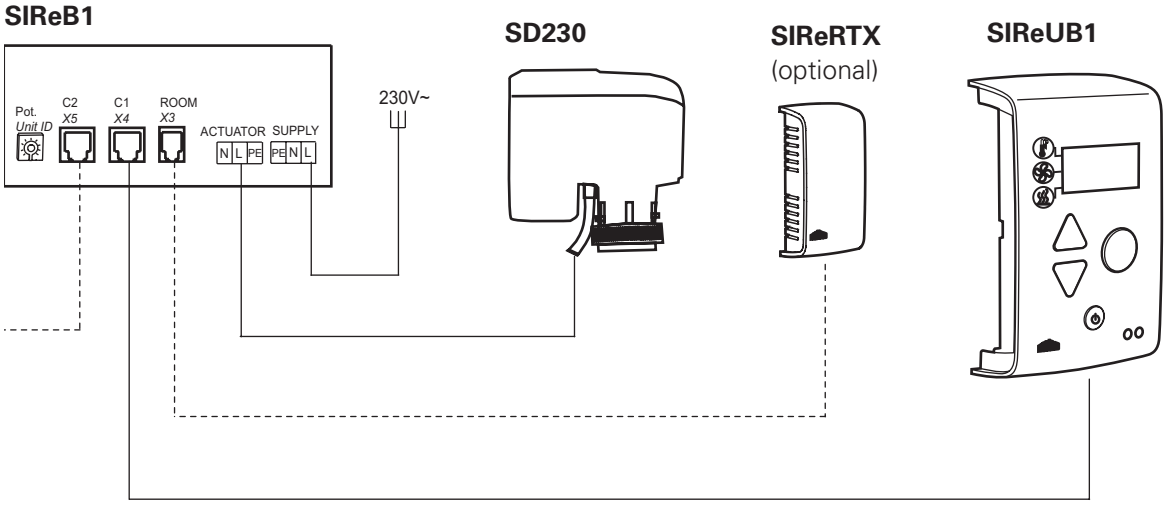
SIReB1



SIReB1



SIReB1



Wiring diagrams for SIReAC Competent and SIReAA Advanced, see manuals for SIRe.

Output charts water AGS5000WH

			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 [m³/h]**	**Output [kW]**	**Return water temp. [°C]**	**Water flow [l/s]**	**Pressure drop [kPA]**	**Output*2 [kW]**	**Outlet air temp. [°C]**	**Water flow [l/s]**	**Pressure drop [kPA]**
AGS5015WH	max	4800	27,5	40,6	0,10	0,8	46,5	46,8	0,38	4,5
	min	2400	13,7	37,0	0,05	0,2	30,5	55,8	0,25	4,2
AGS5020WH	max	7000	40,0	36,5	0,13	0,6	77,2	50,8	0,64	9,0
	min	3500	20,0	36,2	0,07	0,2	50,2	60,6	0,41	4,1
AGS5025WH	max	9400	53,8	38,0	0,18	0,5	101,1	49,9	0,83	7,6
	min	4700	26,9	37,6	0,09	0,2	66,1	59,8	0,54	3,5
AGS5030WH	max	11600	66,4	37,5	0,23	0,7	125,3	50,1	1,03	10,0
	min	5800	33,2	35,1	0,12	0,2	81,6	59,8	0,67	4,6

			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 [m³/h]**	**Output [kW]**	**Return water temp. [°C]**	**Water flow [l/s]**	**Pressure drop [kPA]**	**Output*2 [kW]**	**Outlet air temp. [°C]**	**Water flow [l/s]**	**Pressure drop [kPA]**
AGS5015WH	max	4800	27,5	47,3	0,16	1,9	37,6	41,3	0,46	13,3
	min	2400	13,7	37,7	0,06	0,4	24,6	48,4	0,30	6,1
AGS5020WH	max	7000	40,0	42,0	0,20	1,2	62,4	44,5	0,77	13,1
	min	3500	20,0	36,6	0,09	0,3	40,5	52,4	0,50	5,9
AGS5025WH	max	9400	53,8	43,4	0,28	1,2	82,1	43,9	1,01	11,1
	min	4700	26,9	37,4	0,13	0,3	53,3	51,7	0,65	5,1
AGS5030WH	max	11600	66,4	43,0	0,34	1,5	101,3	43,9	1,24	14,6
	min	5800	33,2	35,9	0,15	0,3	65,7	51,7	0,81	6,6

			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 [m³/h]**	**Output [kW]**	**Return water temp. [°C]**	**Water flow [l/s]**	**Pressure drop [kPA]**	**Output*2 [kW]**	**Outlet air temp. [°C]**	**Water flow [l/s]**	**Pressure drop [kPA]**
AGS5015WH	max	4800	27,5	51,8	0,24	4,1	31,1	37,3	0,38	9,5
	min	2400	13,7	38,5	0,08	0,6	20,4	43,3	0,25	4,4
AGS5020WH	max	7000	40,0	45,4	0,28	2,2	51,6	39,9	0,63	9,4
	min	3500	20,0	36,5	0,11	0,4	33,5	46,4	0,41	4,3
AGS5025WH	max	9400	53,8	46,6	0,39	2,1	67,5	39,3	0,83	7,9
	min	4700	26,9	26,8	0,15	0,4	44,1	45,9	0,54	3,7
AGS5030WH	max	11600	66,4	46,5	0,48	2,7	83,3	39,3	1,02	10,4
	min	5800	33,2	36,0	0,18	0,5	54.5	45,9	0,67	4,8

			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 [m³/h]**	**Output [kW]**	**Return water temp. [°C]**	**Water flow [l/s]**	**Pressure drop [kPA]**	**Output*2 [kW]**	**Outlet air temp. [°C]**	**Water flow [l/s]**	**Pressure drop [kPA]**
AGS5015WH	max	4800	27,5	50,6	0,21	3,4	36,2	40,4	0,81	37,5
	min	2400	13,7	38,2	0,08	0,5	23,5	47,1	0,52	16,9
AGS5020WH	max	7000	40,0	44,8	0,26	1,9	60,2	43,6	1,34	37,2
	min	3500	20,0	36,5	0,11	0,4	38,3	50,5	0,85	16,1
AGS5025WH	max	9400	53,8	46,2	0,37	1,9	79,0	43,0	1,76	31,3
	min	4700	26,9	37,3	0,15	0,4	50,6	50,0	1,13	13,8
AGS5030WH	max	11600	66,4	45,9	0,45	2,4	97,4	43,0	2,17	41,3
	min	5800	33,2	36,0	0,18	0,5	62,5	50,0	1,39	18,2

*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 AGS5000 WL

			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 [m³/h]**	**Output [kW]**	**Return water temp. [°C]**	**Water flow [l/s]**	**Pressure drop [kPA]**	**Output*2 [kW]**	**Outlet air temp. [°C]**	**Water flow [l/s]**	**Pressure drop [kPA]**
AGS5015WL	max	4800	27,4	36,6	0,15	1,0	43,6	45,0	0,53	6,6
	min	2400	13,8	34,6	0,08	0,3	27,5	52,0	0,34	3,7
AGS5020WL	max	7000	40,1	30,6	0,19	1,6	70,2	47,8	0,86	20,8
	min	3500	20,1	28,6	0,09	0,5	43,5	54,9	0,53	8,8
AGS5025WL	max	9400	53,8	31,5	0,27	3,2	90,5	46,6	1,11	37,3
	min	4700	26,8	26,0	0,12	0,8	56,6	53,8	0,69	16,1
AGS5030WL	max	11700	66,4	32,8	0,34	2,6	110,1	46,2	1,34	30,5
	min	5850	33,2	29,0	0,16	0,7	68,9	53,3	0,84	12,8

			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 [m³/h]**	**Output [kW]**	**Return water temp. [°C]**	**Water flow [l/s]**	**Pressure drop [kPA]**	**Output*2 [kW]**	**Outlet air temp. [°C]**	**Water flow [l/s]**	**Pressure drop [kPA]**
AGS5015WL	max	4800	27,4	39,7	0,22	1,8	34,4	39,3	0,42	5,7
	min	2400	13,7	34,6	0,09	0,4	21,8	44,9	0,26	2,5
AGS5020WL	max	7000	40,1	34,0	0,27	2,9	55,9	41,7	0,68	14,2
	min	3500	20,1	29,0	0,12	0,7	34,8	47,6	0,43	6,1
AGS5025WL	max	9400	53,7	35,2	0,38	5,8	72,4	40,9	0,88	25,6
	min	4700	26,8	27,2	0,15	1,2	45,4	46,7	0,55	11,2
AGS5030WL	max	11700	66,4	36,3	0,48	4,7	87,4	40,4	1,06	20,2
	min	5850	33,2	29,5	0,20	1,0	54,8	46,1	0,67	8,6

			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 [m³/h]**	**Output [kW]**	**Return water temp. [°C]**	**Water flow [l/s]**	**Pressure drop [kPA]**	**Output*2 [kW]**	**Outlet air temp. [°C]**	**Water flow [l/s]**	**Pressure drop [kPA]**
AGS5015WL	max	4800	27,4	43,7	0,41	5,7	25,0	33,5	0,30	3,3
	min	2400	13,7	34,6	0,13	0,8	16,1	37,9	0,19	1,5
AGS5020WL	max	7000	40,1	38,5	0,45	7,2	41,4	35,6	0,50	8,6
	min	3500	20,1	30,0	0,16	1,2	26,0	40,0	0,31	3,8
AGS5025WL	max	9400	53,8	40,0	0,65	15,6	53,7	35,0	0,65	15,6
	min	4700	26,8	30,6	0,22	2,4	33,8	39,4	0,41	6,9
AGS5030WL	max	11700	66,4	41,1	0,85	13,8	64,6	34,5	0,78	11,8
	min	5850	33,2	31,7	0,28	1,9	41,0	39,0	0,50	5,2

			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 [m³/h]**	**Output [kW]**	**Return water temp. [°C]**	**Water flow [l/s]**	**Pressure drop [kPA]**	**Output*2 [kW]**	**Outlet air temp. [°C]**	**Water flow [l/s]**	**Pressure drop [kPA]**
AGS5015WL	max	4800	27,4	46,0	0,74	16,6	20,2	30,5	0,24	2,3
	min	2400	13,7	36,4	0,18	1,3	13,1	34,2	0,16	1,1
AGS5020WL	max	7000	40,1	41,5	0,72	16,4	34,1	32,5	0,41	6,2
	min	3500	20,0	32,2	0,21	2,0	21,7	36,4	0,26	2,8
AGS5025WL	max	9400	53,7	43,3	1,11	40,5	44,2	32,0	0,53	11,2
	min	4700	26,8	33,1	0,30	4,0	28,3	35,9	0,34	5,1
AGS5030WL	max	11700	66,4	44,0	1,46	37,3	53,1	31,6	0,64	8,4
	min	5850	33,2	34,0	0,38	3,3	34,0	35,4	0,41	3,7

*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

AGS6000 WH

			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 [m³/h]**	**Output [kW]**	**Return water temp. [°C]**	**Water flow [l/s]**	**Pressure drop [kPA]**	**Output*2 [kW]**	**Outlet air temp. [°C]**	**Water flow [l/s]**	**Pressure drop [kPA]**
AGS6010WH	max	4200	24,0	38,0	0,08	0,3	48,1	52,0	0,40	5,5
	min	2100	12,0	39,4	0,04	0,1	31,4	62,5	0,26	2,6
AGS6015WH	max	6500	37,2	48,2	0,15	1,7	55,2	43,2	0,46	12,5
	min	3250	18,6	36,0	0,06	0,4	36,9	51,7	0,31	5,9
AGS6020WH	max	8500	48,6	40,3	0,17	0,9	86,2	48,1	0,71	11,0
	min	4250	24,3	35,0	0,08	0,2	56,8	57,7	0,47	5,1
AGS6025WH	max	10600	60,6	40,3	0,21	0,7	108,4	48,4	0,89	8,6
	min	5300	30,3	35,9	0,11	0,2	71,3	58,0	0,59	4,0
AGS6030WH	max	12600	72,2	39,2	0,25	0,8	131,0	48,9	1,08	10,9
	min	6300	36,1	34,3	0,12	0,2	86,2	58,7	0,71	5,1

			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 [m³/h]**	**Output [kW]**	**Return water temp. [°C]**	**Water flow [l/s]**	**Pressure drop [kPA]**	**Output*2 [kW]**	**Outlet air temp. [°C]**	**Water flow [l/s]**	**Pressure drop [kPA]**
AGS6010WH	max	4200	24,0	42,6	0,12	0,7	40,0	45,6	0,48	8,1
	min	2100	12,0	39,2	0,06	0,2	25,4	54,0	0,31	3,7
AGS6015WH	max	6500	37,2	55,9	0,27	5,0	44,6	38,4	0,55	18,2
	min	3250	18,6	39,0	0,09	0,7	29,8	45,2	0,37	8,6
AGS6020WH	max	8500	48,6	46,0	0,27	2,0	69,7	42,4	0,86	16,1
	min	4250	24,3	35,8	0,11	0,4	46,0	50,1	0,56	7,5
AGS6025WH	max	10600	60,6	46,0	0,34	1,6	87,8	42,6	1,08	12,6
	min	5300	30,3	36,8	0,14	0,3	57,7	50,4	0,71	5,8
AGS6030WH	max	12600	72,2	44,8	0,39	1,8	106,4	43,1	1,31	16,0
	min	6300	36,1	35,6	0,16	0,4	69,5	50,8	0,85	7,3

*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

AGS6000 WH

			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 [m³/h]**	**Output [kW]**	**Return water temp. [°C]**	**Water flow [l/s]**	**Pressure drop [kPA]**	**Output*2 [kW]**	**Outlet air temp. [°C]**	**Water flow [l/s]**	**Pressure drop [kPA]**
AGS6010WH	max	4200	24,0	45,5	0,17	1,3	32,0	40,7	0,39	5,7
	min	2100	12,0	38,5	0,07	0,3	21,0	47,6	0,26	2,7
AGS6015WH	max	6500	37,2	60,5	0,47	13,8	36,9	34,9	0,45	13,0
	min	3250	18,6	42,8	0,12	1,3	24,7	40,5	0,30	6,2
AGS6020WH	max	8500	48,6	49,7	0,39	4,0	57,6	38,1	0,70	11,5
	min	4250	24,3	36,6	0,14	0,6	37,9	44,5	0,46	5,3
AGS6025WH	max	10600	60,6	49,3	0,48	3,0	72,4	38,3	0,88	9,0
	min	5300	30,3	37,2	0,17	0,5	47,6	44,7	0,58	4,2
AGS6030WH	max	12600	72,2	72,0	0,55	3,5	87,5	38,6	1,07	11,4
	min	6300	36,1	36,0	0,20	0,6	57,4	45,0	0,70	5,3

			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 [m³/h]**	**Output [kW]**	**Return water temp. [°C]**	**Water flow [l/s]**	**Pressure drop [kPA]**	**Output*2 [kW]**	**Outlet air temp. [°C]**	**Water flow [l/s]**	**Pressure drop [kPA]**
AGS6010WH	max	4200	24,0	44,8	0,16	1,2	37,9	44,8	0,84	23,2
	min	2100	12,0	38,6	0,07	0,3	24,2	52,3	0,54	10,2
AGS6015WH	max	6500	37,2	59,6	0,41	10,7	43,0	37,7	0,96	51,8
	min	3250	18,6	42,0	0,11	1,1	28,5	44,1	0,64	24,1
AGS6020WH	max	8500	48,6	49,0	0,36	3,4	67,4	41,6	1,50	45,9
	min	4250	24,3	36,3	0,13	0,6	44,0	48,8	0,98	20,8
AGS6025WH	max	10600	60,6	48,8	0,44	2,6	84,9	41,8	1,89	35,7
	min	5300	30,3	37,1	0,16	0,5	55,3	49,0	1,23	16,2
AGS6030WH	max	12600	72,2	47,6	0,51	3,0	102,4	42,1	2,28	45,2
	min	6300	36,1	35,9	0,19	0,5	66,8	49,5	1,49	20,5

*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

AGS6000 WL

			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 [m³/h]**	**Output [kW]**	**Return water temp. [°C]**	**Water flow [l/s]**	**Pressure drop [kPA]**	**Output*2 [kW]**	**Outlet air temp. [°C]**	**Water flow [l/s]**	**Pressure drop [kPA]**
AGS6010WL	max	4200	24,0	32,5	0,12	1,1	42,3	47,9	0,52	13,2
	min	2100	12,0	31,5	0,06	0,3	26,4	55,3	0,32	5,7
AGS6015WL	max	6500	37,2	41,7	0,24	2,0	52,4	42,0	0,64	12,1
	min	3250	18,6	33,8	0,10	0,4	33,9	49,0	0,41	5,5
AGS6020WL	max	8500	48,6	33,2	0,25	2,5	79,4	45,8	0,97	26,0
	min	4250	24,4	27,9	0,11	0,6	49,9	52,9	0,61	11,3
AGS6025WL	max	10600	60,6	33,1	0,31	4,2	97,8	45,4	1,19	42,9
	min	5300	30,3	26,0	0,14	1,0	61,6	52,5	0,75	18,7
AGS6030WL	max	12600	72,0	34,0	0,38	3,1	116,2	45,4	1,42	33,7
	min	6300	36,0	28,7	0,17	0,6	73,0	52,4	0,89	14,2

			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 [m³/h]**	**Output [kW]**	**Return water temp. [°C]**	**Water flow [l/s]**	**Pressure drop [kPA]**	**Output*2 [kW]**	**Outlet air temp. [°C]**	**Water flow [l/s]**	**Pressure drop [kPA]**
AGS6010WL	max	4200	24,0	35,5	0,17	1,9	33,5	41,7	0,41	8,9
	min	2100	12,0	31,4	0,08	0,8	21,0	47,7	0,26	7,2
AGS6015WL	max	6500	37,2	45,0	0,36	4,4	41,3	36,9	0,50	8,0
	min	3250	18,6	34,5	0,13	0,7	26,8	42,5	0,33	3,7
AGS6020WL	max	8500	48,6	36,8	0,36	4,6	63,1	40,1	0,77	17,6
	min	4250	24,4	28,8	0,14	1,0	39,7	45,8	0,48	7,7
AGS6025WL	max	10600	60,6	37,0	0,44	7,8	77,8	39,8	0,95	29,2
	min	5300	30,3	28,2	0,18	1,6	49,1	45,5	0,60	12,9
AGS6030WL	max	12600	72,0	37,7	0,54	6,0	92,1	39,7	1,12	22,3
	min	6300	36,0	29,5	0,21	1,0	58,1	45,4	0,71	7,6

*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

AGS6000 WL

			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 [m³/h]**	**Output [kW]**	**Return water temp. [°C]**	**Water flow [l/s]**	**Pressure drop [kPA]**	**Output*2 [kW]**	**Outlet air temp. [°C]**	**Water flow [l/s]**	**Pressure drop [kPA]**
AGS6010WL	max	4200	24,0	39,4	0,28	4,8	24,5	35,3	0,30	5,3
	min	2100	12,0	31,6	0,10	1,0	15,5	39,9	0,19	4,1
AGS6015WL	max	6500	37,2	49,2	0,83	20,2	29,9	31,6	0,36	4.6
	min	3250	18,6	38,0	0,21	1,7	19,6	35,9	0,24	2,2
AGS6020WL	max	8500	48,6	41,8	0,65	13,5	46,7	34,3	0,56	10,6
	min	4250	24,3	31,8	0,21	1,9	29,9	38,9	0,36	4,8
AGS6025WL	max	10600	60,6	42,2	0,83	23,6	57,7	34,2	0,70	17,6
	min	5300	30,3	32,0	0,26	3,2	37,1	38,8	0,45	8,1
AGS6030WL	max	12600	72,0	42,5	1,00	18,4	68,0	34,0	0,82	13,0
	min	6300	36,0	32,6	0,32	2,0	43,6	38,5	0,53	4,7

			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 [m³/h]**	**Output [kW]**	**Return water temp. [°C]**	**Water flow [l/s]**	**Pressure drop [kPA]**	**Output*2 [kW]**	**Outlet air temp. [°C]**	**Water flow [l/s]**	**Pressure drop [kPA]**
AGS6010WL	max	4200	24,0	41,7	0,44	10,6	19,9	32,1	0,24	3,7
	min	2100	12,0	33,0	0,13	2,2	12,8	36,1	0,16	2,9
AGS6015WL	max	6500	–	–	–	–	24,0	29,0	0,29	3,1
	min	3250	18,6	40,2	0,30	3,4	15,9	32,6	0,19	1,5
AGS6020WL	max	8500	48,6	45,0	1,18	39,4	38,4	31,4	0,46	7,7
	min	4250	24,4	34,3	0,28	3,2	24,7	35,3	0,30	3,5
AGS6025WL	max	10600	60,6	45,7	1,58	75,7	47,6	31,3	0,58	12,8
	min	5300	30,3	34,5	0,36	5,5	30,7	35,2	0,37	5,9
AGS6030WL	max	12600	72,0	45,7	1,88	59,6	55,9	31,2	0,68	9,2
	min	6300	36,0	35,1	0,44	3,4	36,0	35,0	0,44	3,4

– = 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.

Technical specifications | AGS5000/6000 A without heat

Type	Output [kW]	Airflow*1 [m³/h]	Sound level*2 [dB(A)]	Voltage motor [V]	Amperage motor [A]	Length [mm]	Weight [kg]
AGS5015A	0	2650/5300	48/67	230V~	5,4	1515	100
AGS5020A	0	3800/7600	50/69	230V~	8,1	2010	130
AGS5025A	0	5100/10200	52/71	230V~	10,8	2520	165
AGS5030A	0	6000/12000	53/72	230V~	13,3	3030	195
AGS6010A	0	2350/4700	48/67	230V~	5,0	1010	80
AGS6015A	0	3550/7100	50/69	230V~	7,5	1515	115
AGS6020A	0	4650/9300	51/70	230V~	9,5	2010	145
AGS6025A	0	5800/11600	52/71	230V~	12,2	2520	180
AGS6030A	0	6500/13000	54/73	230V~	14,2	3030	210

Technical specifications | AGS5000/6000 WH with water heat, coil for high emperature water ≥ 80/60 °C

Type	Output*4 [kW]	Airflow*1 [m³/h]	Δt*3,4 [°C]	Water volume [l]	Sound level*2 [dB(A)]	Voltage motor [V]	Amperage motor [A]	Length [mm]	Weight [kg]
AGS5015WH	31,1	2400/4800	25/19	3,8	47/66	230V~	5,2	1515	120
AGS5020WH	51,6	3500/7000	28/22	4,9	49/68	230V~	7,8	2010	155
AGS5025WH	67,5	4700/9400	28/21	6,4	50/69	230V~	10,4	2520	195
AGS5030WH	83,3	5800/11600	28/21	7,6	52/71	230V~	12,8	3030	235
AGS6010WH	32,0	2100/4200	30/23	2,7	47/66	230V~	4,8	1010	95
AGS6015WH	36,9	3250/6500	23/17	3,8	49/68	230V~	7,2	1515	135
AGS6020WH	57,6	4250/8500	27/20	4,9	50/69	230V~	9,1	2010	170
AGS6025WH	72,4	5300/10600	27/20	6,4	51/70	230V~	11,7	2520	210
AGS6030WH	87,5	6300/12600	27/21	7,6	53/72	230V~	13,6	3030	250

Technical specifications | AGS5000/6000 WL with water heat, coil for low temperature water < 80/60 °C

Type	Output*5 [kW]	Airflow*1 [m³/h]	Δt*3,5 [°C]	Water volume [l]	Sound level*2 [dB(A)]	Voltage motor [V]	Amperage motor [A]	Length [mm]	Weight [kg]
AGS5015WL	25,0	2400/4800	20/16	4,0	47/66	230V~	5,2	1515	120
AGS5020WL	41,4	3500/7000	22/18	8,1	49/68	230V~	7,8	2010	155
AGS5025WL	53,7	4700/9400	21/17	9,2	50/69	230V~	10,4	2520	195
AGS5030WL	64,6	5800/11600	21/17	11,0	52/71	230V~	12,8	3030	235
AGS6010WL	24,5	2100/4200	22/17	3,8	47/66	230V~	4,8	1010	95
AGS6015WL	29,9	3250/6500	18/14	4,0	49/68	230V~	7,2	1515	135
AGS6020WL	46,7	4250/8500	21/16	8,1	50/69	230V~	9,1	2010	170
AGS6025WL	57,7	5300/10600	21/16	9,2	51/70	230V~	11,7	2520	210
AGS6030WL	68,0	6300/12600	21/16	11,0	53/72	230V~	13,6	3030	250

*1) Lowest/highest airflow of totally 5 fan steps.

*2) Conditions: Distance to the unit 5 metres. Directional factor: 2. Equivalent absorption area: 200 m². At lowest/highest airflow.

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

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

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

See www.frico.se for additional calculations.

Protection class: IP23.
CE compliant.

GB

Assembly 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

The AGS5000/6000 air curtain unit is supplied without heating or hot water heating. AGS5000 is intended for entrances and doors, with installation height up to 5 metres.
AGS6000 is intended for entrances and doors, with installation height up to 6 metres. Protection class: IP23.

Operation

Air is drawn in at the front side of the unit and blown out downwards towards the entrance so that it shields the door opening and minimizes heat loss.
To get the best curtain effect the unit must extend the full 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 is installed horizontally with the supply air grille facing downwards as close to the door as possible. For the protection of wider doorways, several units can be mounted next to each other. Ensure that the service hatch is accessible and can be fully opened.
The unit has 4 (6 on 2 and 2,5 meter models, 8 on 3 meter model) M10 fixed nuts on the upper side for ceiling installation using threaded bars, or for installation using wall brackets (accessories). See fig. 6.

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.
The control system is pre-installed in the air curtain with an integrated control card.
SIRe is supplied pre-programmed with quick-fit connections.
Modular cables are connected to the control board. See manual for SIRe.

Operation (230V~) is connected to terminal block in the junction box on top of the unit.
AGS5030/6025/6030 have two SIRe-cards, one of them being slave connected.

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 on the upper side of the unit via connections, see table fig. 1.
The connections to the heating coil must be equipped with shut off valves to allow problem free removal. Water coil is equipped with a drain valve. A vent valve should be connected at a high point in the pipe system.
Air valves are not included.

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 first carry out the following:
1. Disconnect the power supply.
2. The service hatch is opened by first opening the intake grille and then unscrew the screws in the underside of the unit, see fig. 5.

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.

Temperature control

Temperature control of SIRe maintains the exhaust temperature. If the temperature should exceed anyway the overheating alarm goes off. For more information see the manual for SIRe.

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. It can be accessed via the service hatch.

Trouble shooting

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

- That the intake grille/filter is not dirty.
- Functions and settings of the SIRe control system , see manual for SIRe.

If there is no heat, check the following:

- Functions and settings of the SIRe control system, see manual for SIRe.

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.

Safety

- Keep the areas around the air intake and exhaust grilles free from possible obstructions!
- The unit may have hot surfaces during operation and when cooling down!
- Lifting equipment must be used to lift the unit.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

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