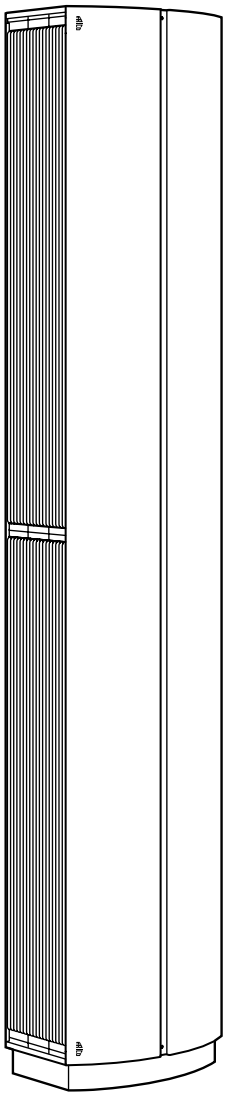
Original instructions

AC Corinte ACCS



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. 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.**

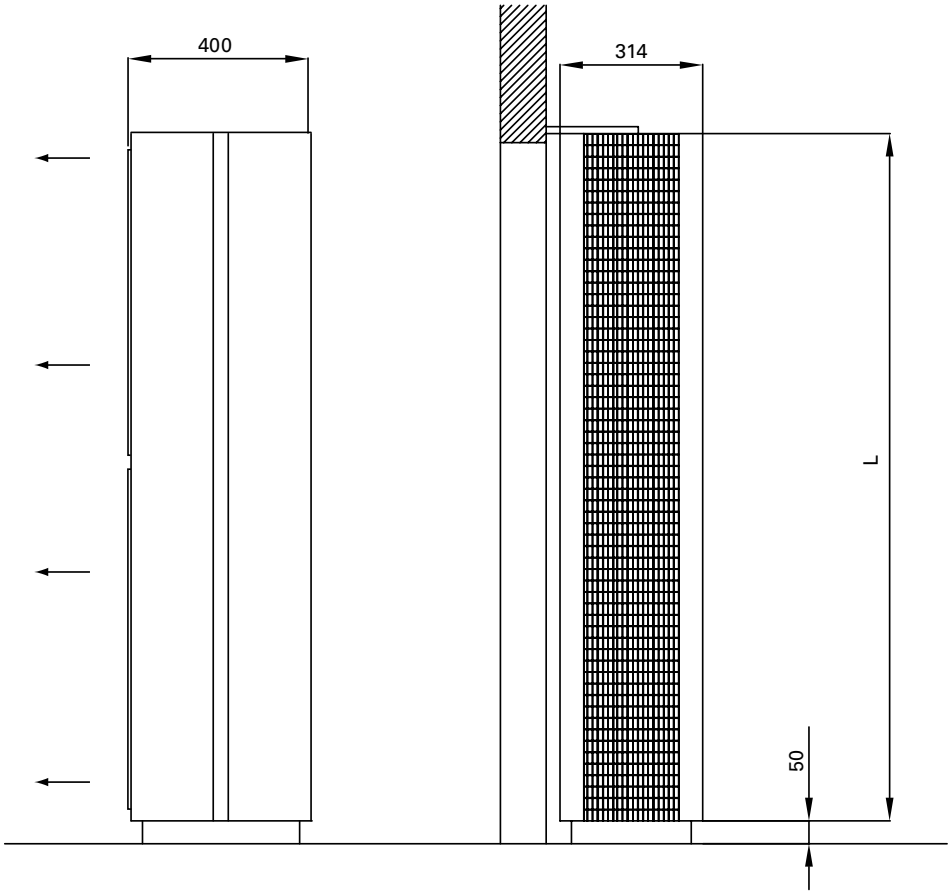
NL **De inleidende pagina's bevatten hoofdzakelijk afbeeldingen. Voor een vertaling van de gebruikte Engelse teksten, zie de pagina's van de resp. taal.**

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

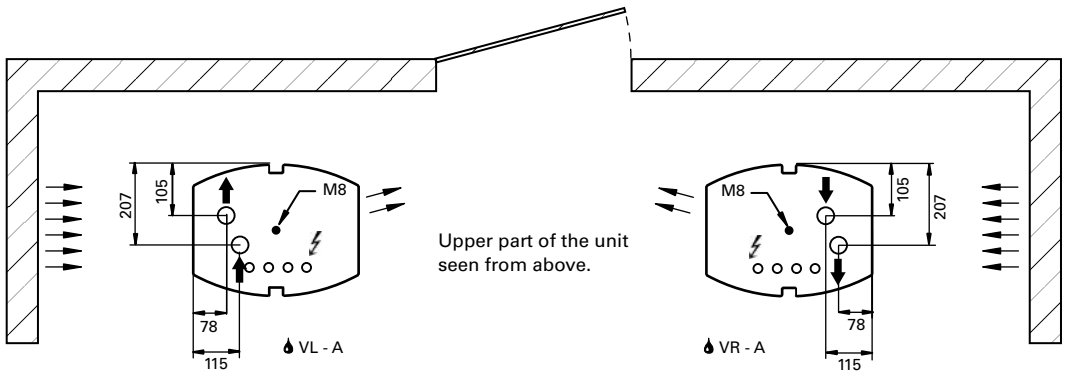
PL **Początkowe strony zawierają głównie rysunki. Tłumaczenie wykorzystanych tekstów angielskich znajduje się na odpowiednich stronach językowych.**

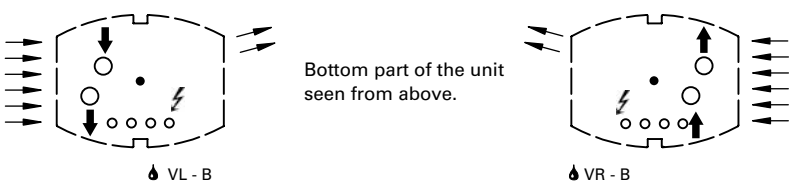
RU Страницы в начале Инструкции состоят в основном из рисунков, схем и таблиц. Перевод встречающегося там текста приведен в разделе RU.

Vertical mounting



	L [mm]
ACCS20	2000
ACCS25	2500
ACCS30	3000





Connection dimensions, inside thread: 1", DN25

Dimensions and connections

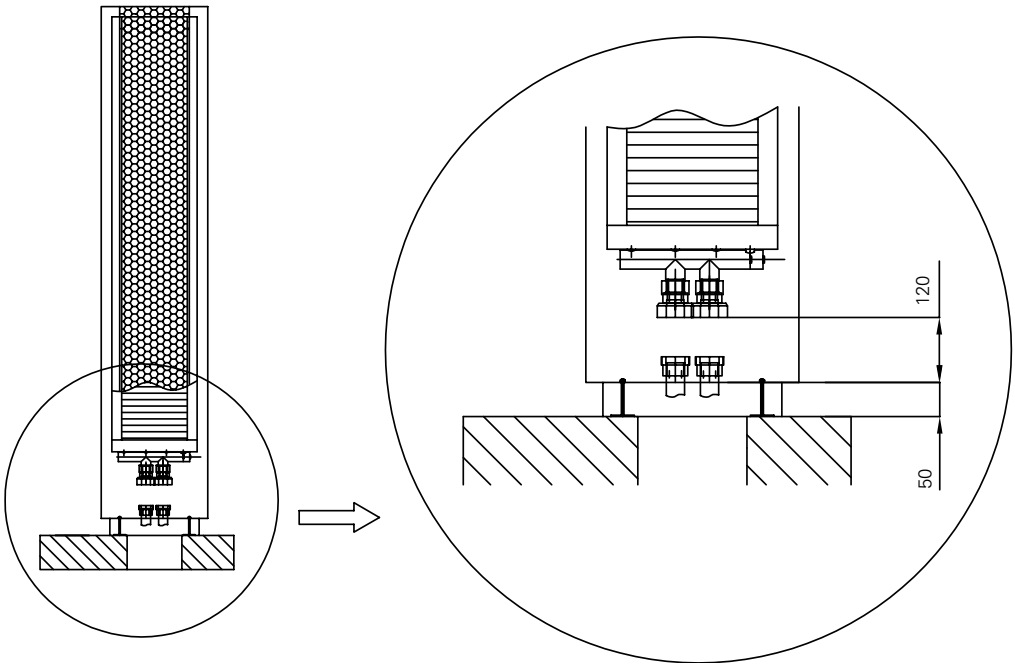
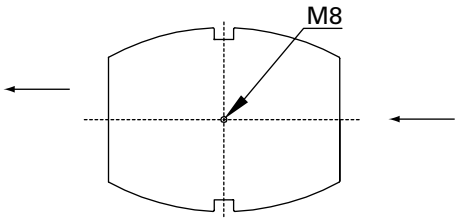


Fig. 1: Details of ACCS W

Securing



Note! The air curtain must be secured in the wall or ceiling.

Fig. 2: Securing in the wall or ceiling.

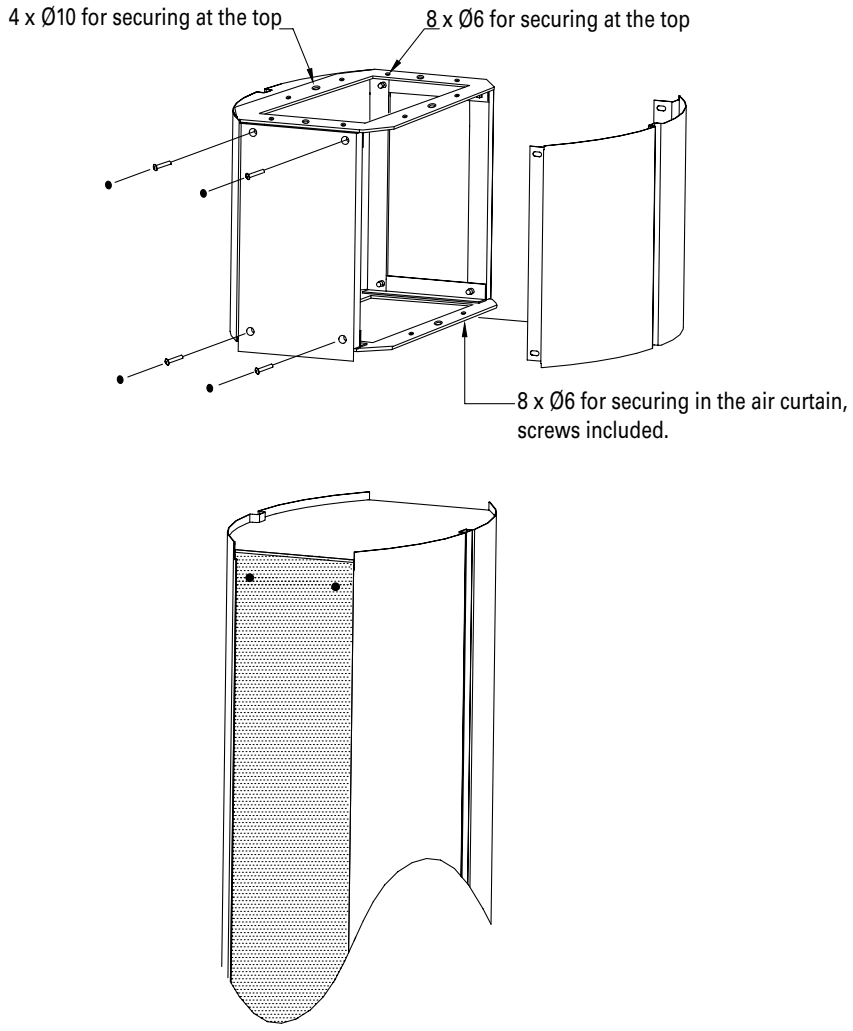
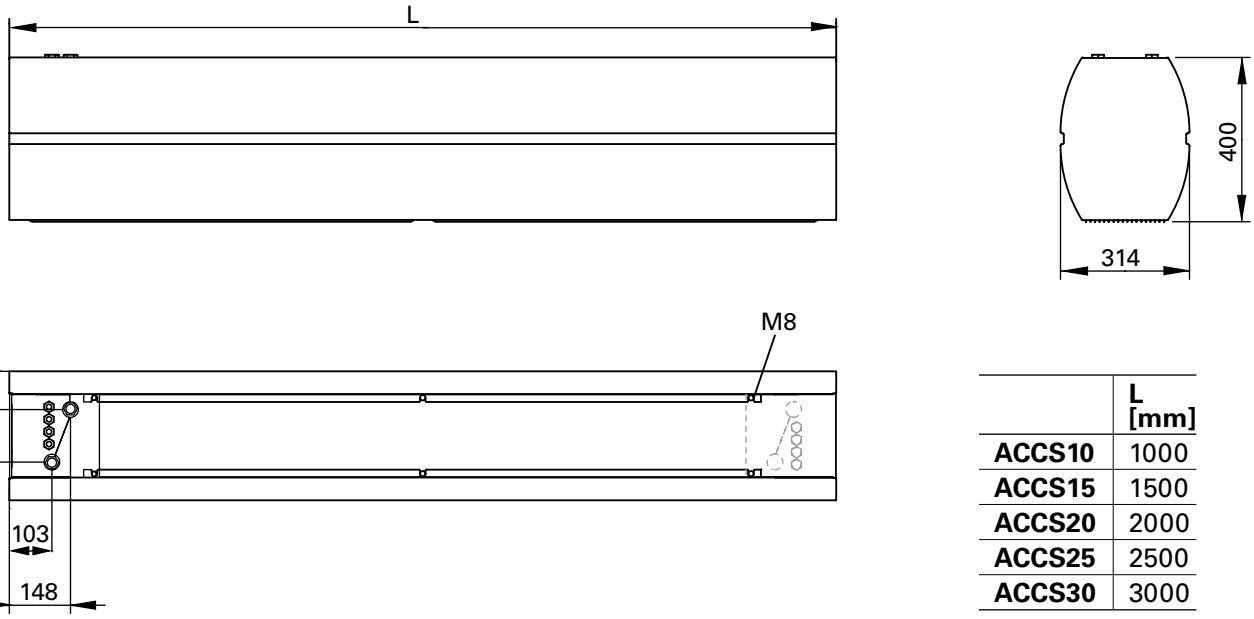


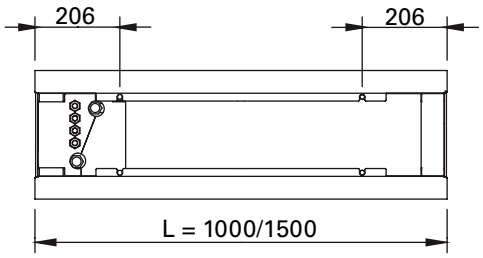
Fig. 3: Extension hood, Accessory

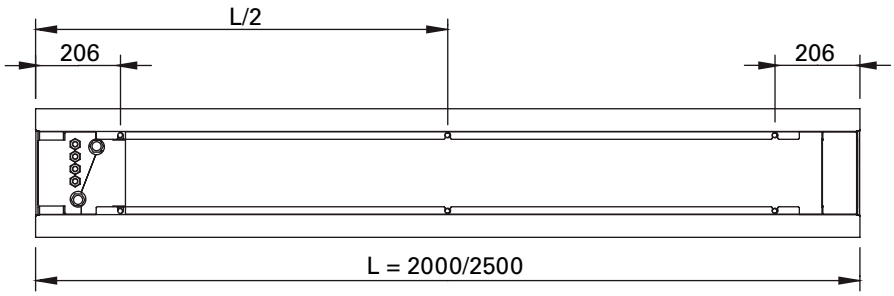
Horizontal mounting

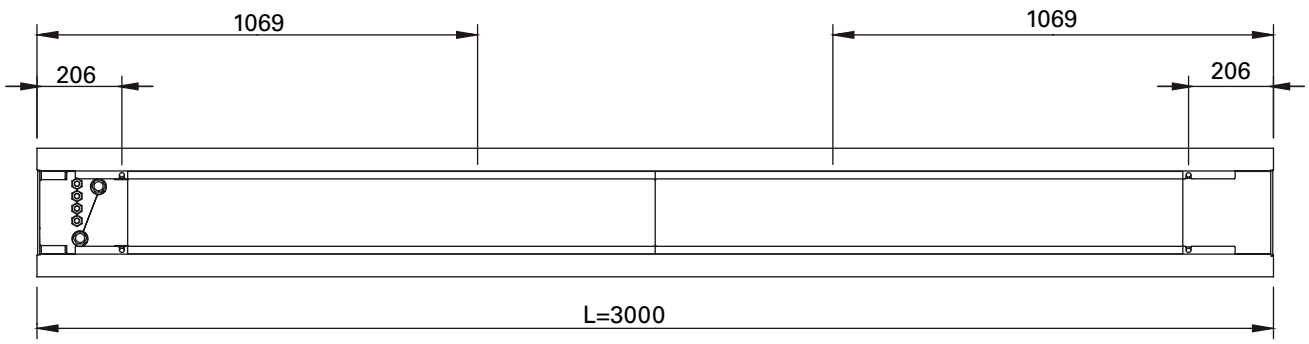


	L [mm]
ACCS10	1000
ACCS15	1500
ACCS20	2000
ACCS25	2500
ACCS30	3000

Connection dimensions W, inside thread: 3/4", DN20







Mounting dimensions

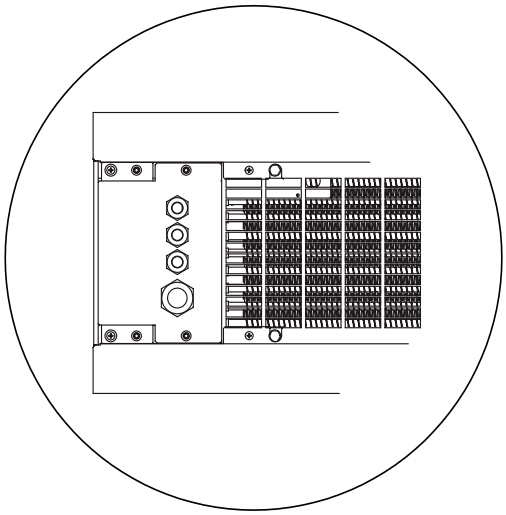
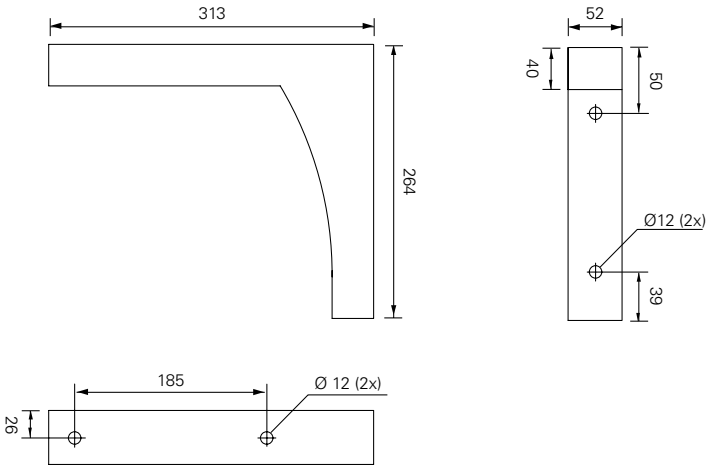


Fig. 4: Details of ACCS E



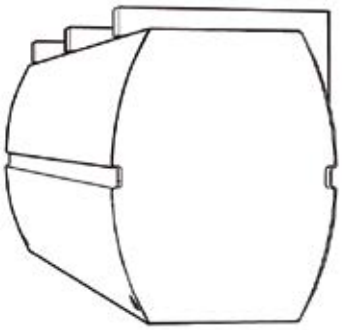


Fig. 5: ACCS Wall bracket, Accessory

Vertical and horizontal mounting

To open

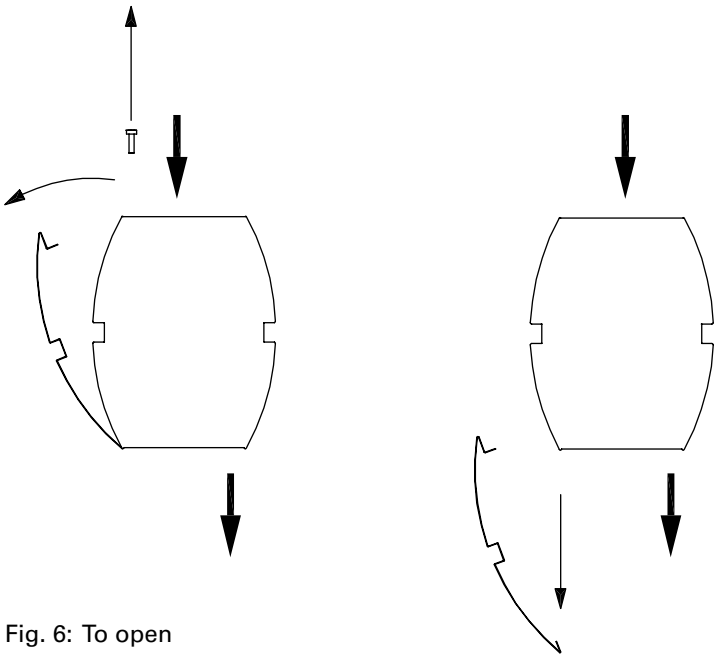


Fig. 6: To open

Minimum distance

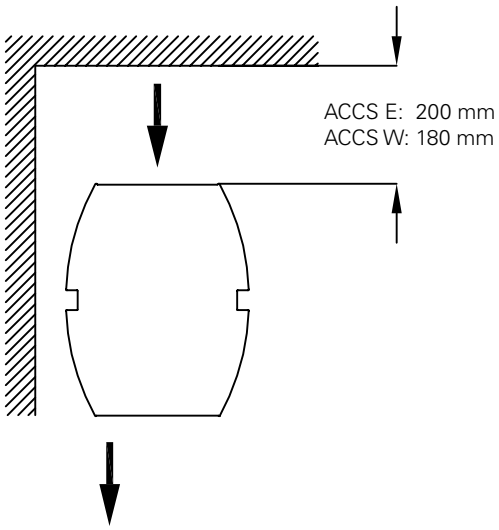
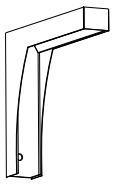
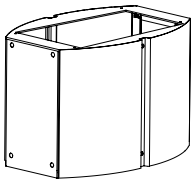


Fig. 7: Minimum distances

Accessories

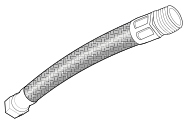


ACCW



ACCSEH

AXP300



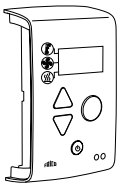
FH1025

Type
ACCWBB
ACCWBP
ACCWBMP
ACCSEH
AXP300
FH1025

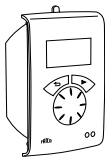
Accessories

SIRe

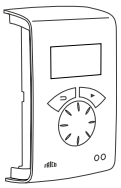
SIReB		
SIReAC		
SIReAA		
SIReRTX	70x33x23 mm	
SIReUR	114x70x50 mm	
SIReWTA		
SIReCJ4		
SIReCJ6		
SIReCC603		3 m
SIReCC605		5 m
SIReCC610		10 m
SIReCC615		15 m
SIReCC640		40 m
SIReCC403		3 m
SIReCC405		5 m
SIReCC410		10 m
SIReCC415		15 m



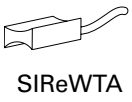
SIReB



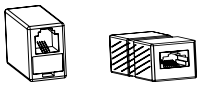
SIReUR



SIReAC/SIReAA



SIReWTA

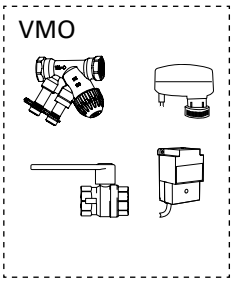


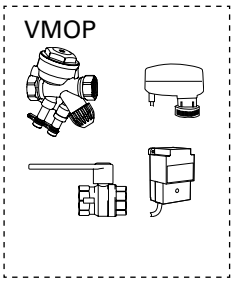
SIReCJ4/SIReCJ6

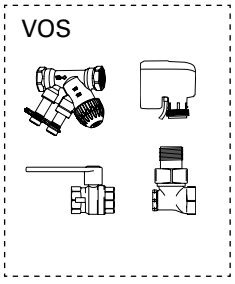
SIReRTX

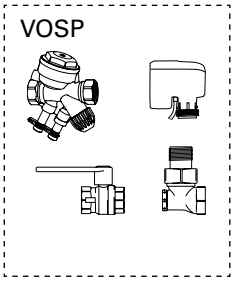
SIReCC

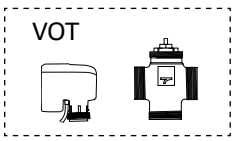
Type	Connection
VMO15LF	DN15
VMO15NF	DN15
VMO20	DN20
VMO25	DN25
VMOP15LF	DN15
VMOP15NF	DN15
VMOP20	DN20
VMOP25	DN25
VOS15LF	DN15
VOS15NF	DN15
VOS20	DN20
VOS25	DN25
VOSP15 LF	DN15
VOSP15NF	DN15
VOSP20	DN20
VOSP25	DN25
VOT15	DN15
VOT20	DN20
VOT25	DN25
VMT15	DN15
VMT20	DN20
VMT25	DN25
VAT	

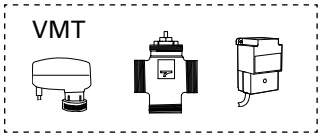






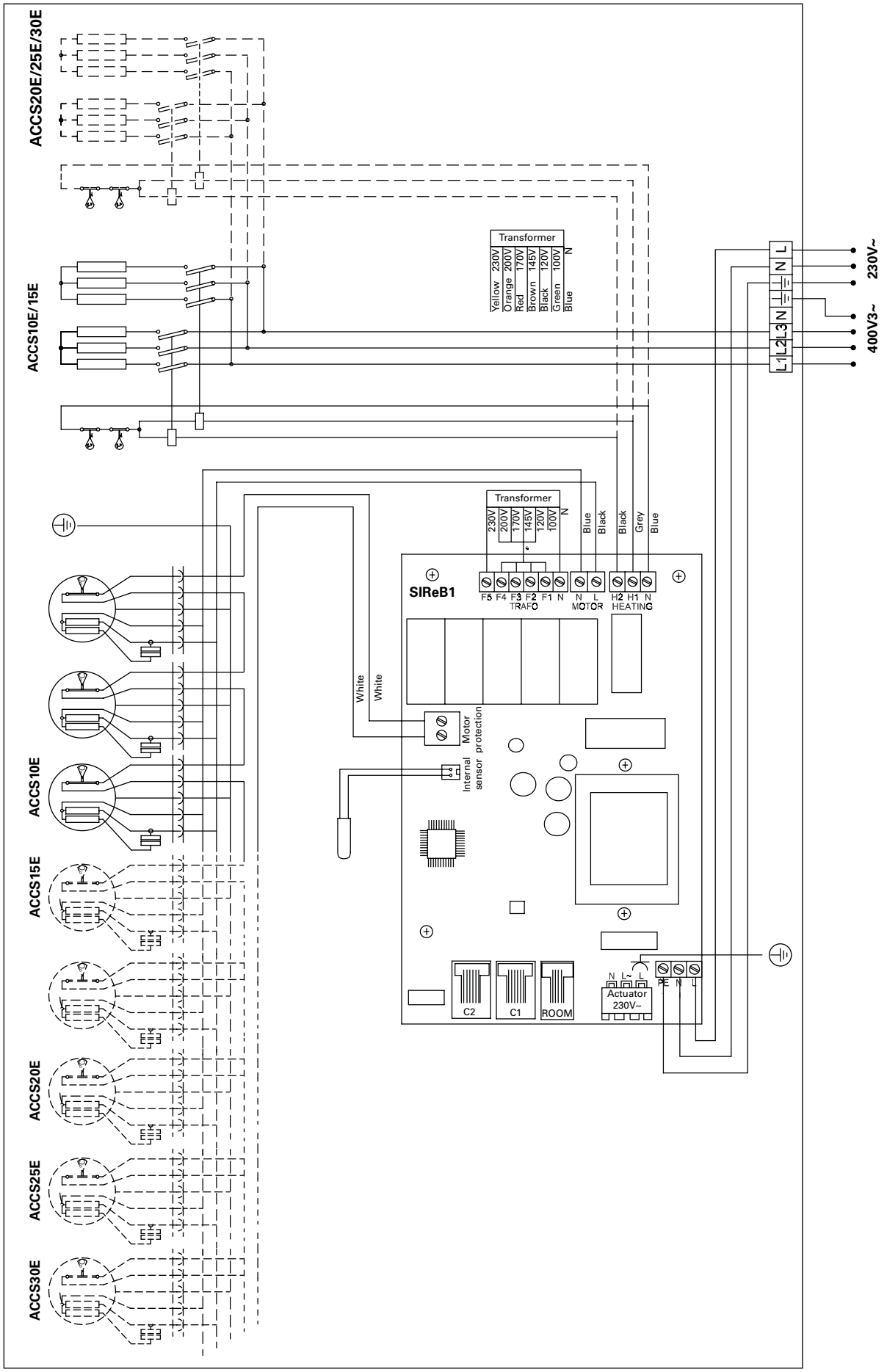






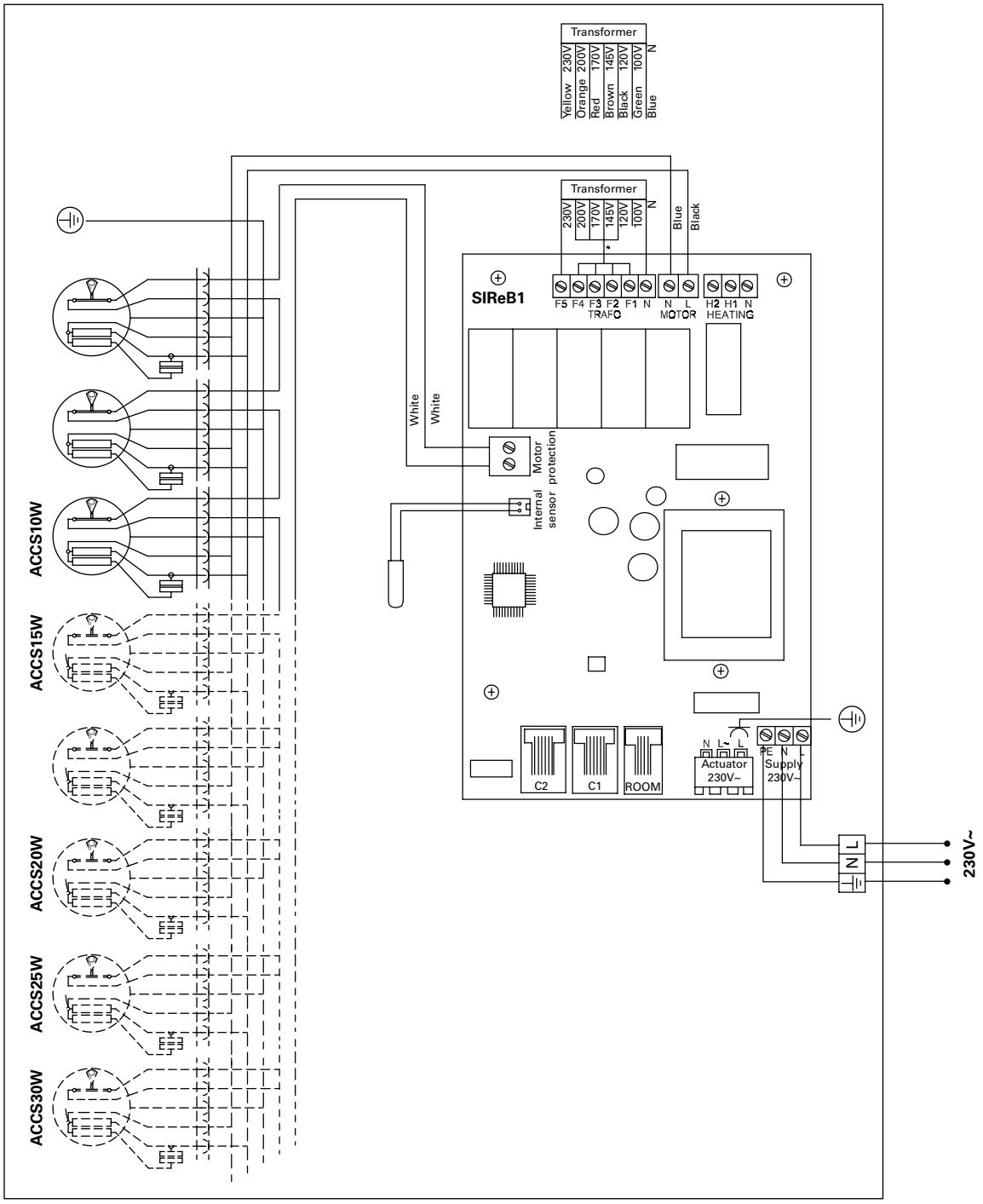
AC Corinte ACCS

ACCS E



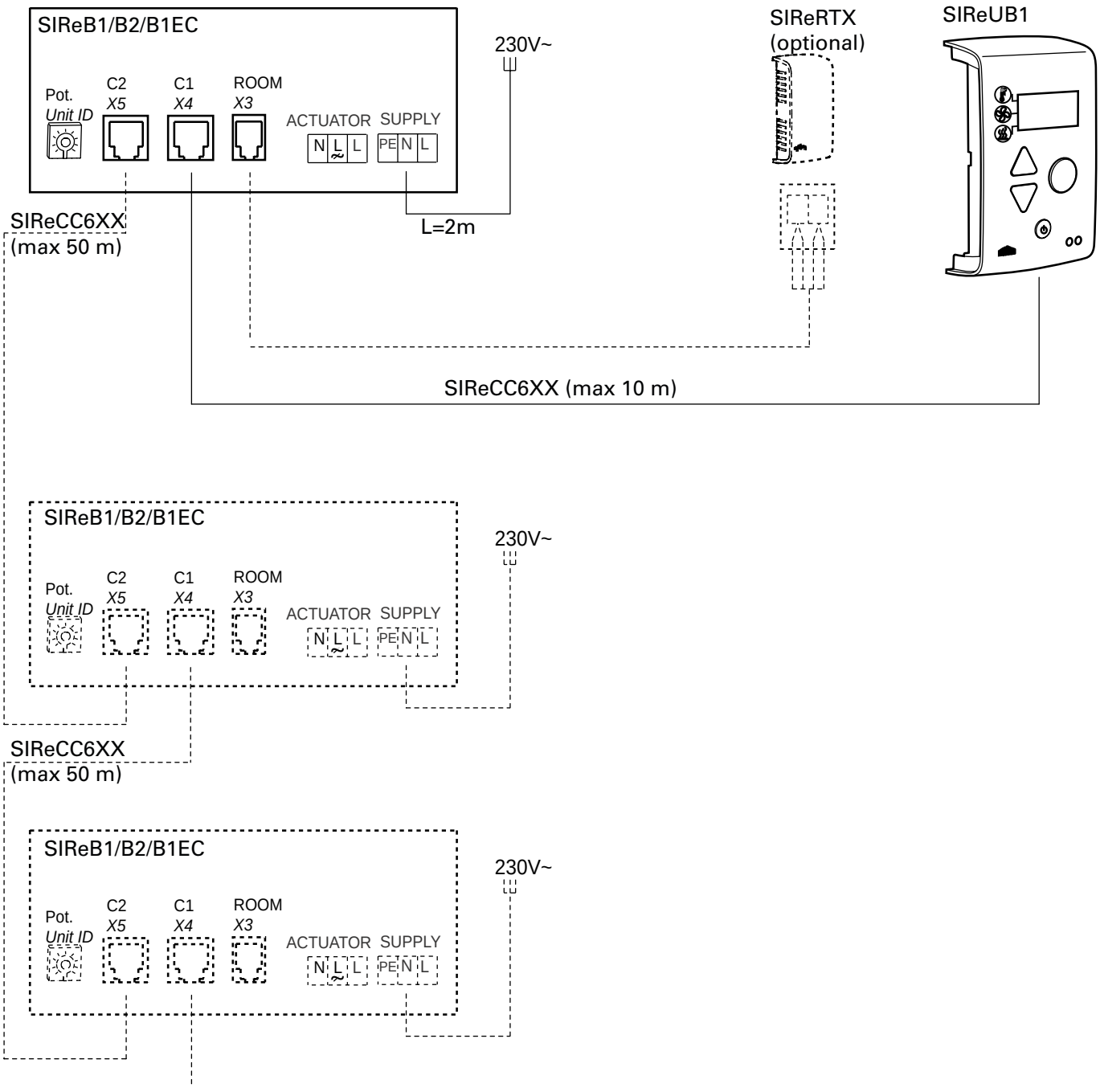
AC Corinte ACCS

ACCS W



SIReB Basic

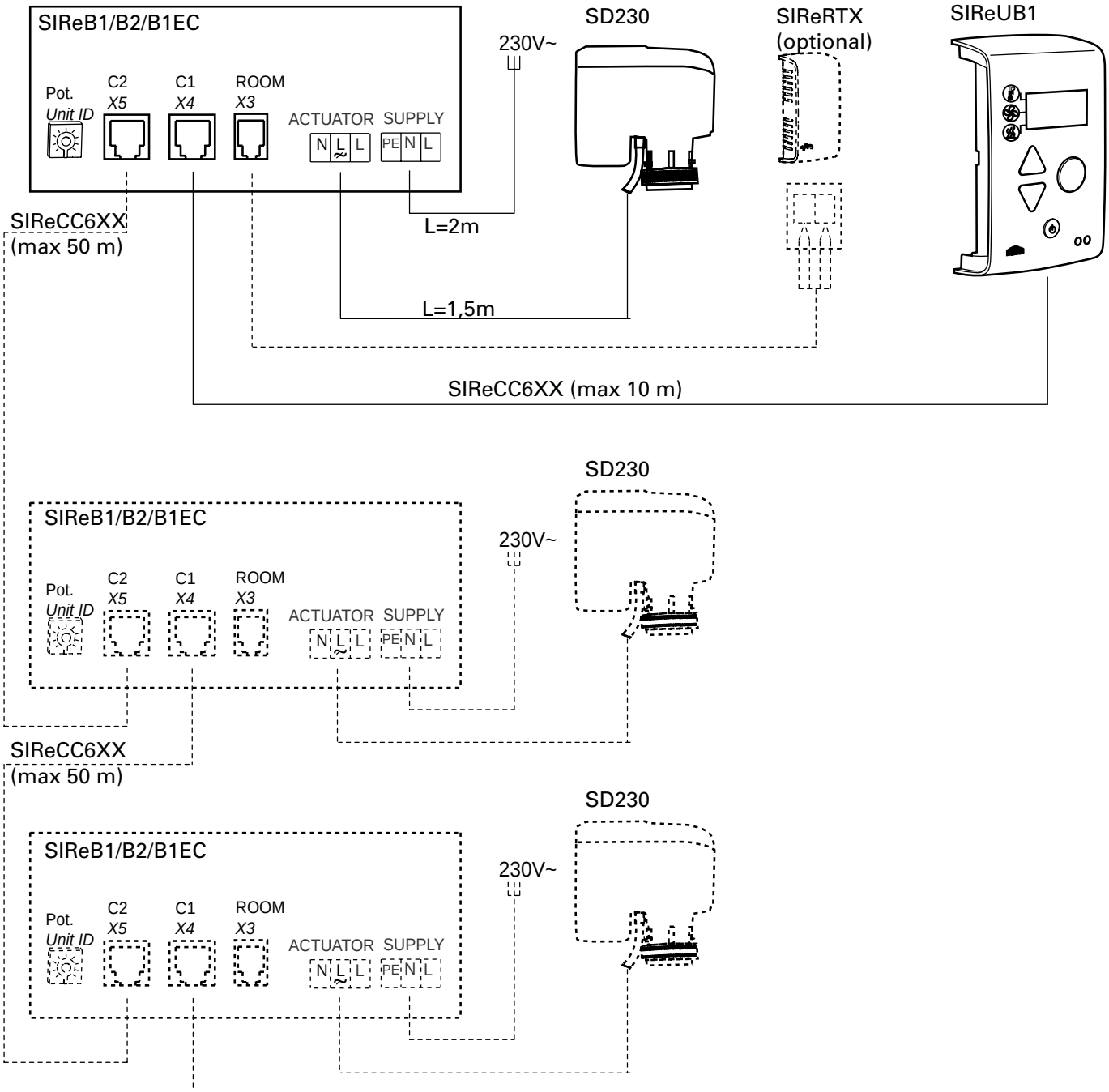
ACCS E



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

SIReB Basic

ACCS W



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

Output charts water

ACCS WH, Horizontal mounting

			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]**
ACCS10WH	max	1900	10,9	45,7	0,04	2,0	16,6	43,9	0,14	15,9
	min	950	5,4	32,7	0,02	0,5	11,1	52,7	0,09	7,7
ACCS15WH	max	2600	14,9	48,0	0,06	0,8	22,6	43,9	0,19	5,7
	min	1350	7,7	39,8	0,03	0,2	15,5	52,0	0,13	2,9
ACCS20WH	max	3800	21,7	45,7	0,08	1,9	33,3	44,0	0,28	14,9
	min	1980	11,3	33,0	0,04	0,4	22,8	52,2	0,19	7,5
ACCS25WH	max	4500	25,8	45,0	0,10	1,1	40,6	44,8	0,33	9,9
	min	2340	13,4	36,0	0,04	0,4	27,6	53,0	0,23	4,9
ACCS30WH	max	5100	29,2	36,2	0,10	1,6	52,5	48,6	0,43	21,3
	min	2660	15,2	29,4	0,05	0,4	35,2	57,3	0,29	10,3

			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]**
ACCS10WH	max	1900	10,9	53,5	0,07	5,6	13,4	39,0	0,16	23,2
	min	950	5,4	37,3	0,02	0,9	8,9	45,9	0,11	11,2
ACCS15WH	max	2600	14,9	54,7	0,10	2,1	18,3	38,9	0,22	8,3
	min	1350	7,7	40,7	0,04	0,4	12,5	45,5	0,15	4,2
ACCS20WH	max	3800	21,7	53,4	0,14	5,1	26,9	39,0	0,33	21,6
	min	1980	11,3	38,0	0,05	0,9	18,4	45,6	0,23	10,9
ACCS25WH	max	4500	25,8	52,0	0,17	4,1	32,9	39,7	0,41	21,0
	min	2340	13,4	37,6	0,06	0,7	22,2	46,3	0,27	10,1
ACCS30WH	max	5100	29,2	43,0	0,15	3,5	42,5	42,8	0,52	31,1
	min	2660	15,2	31,7	0,06	0,8	28,4	49,7	0,35	15

			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]**
ACCS10WH	max	1900	10,9	58,8	0,13	14,8	11,1	35,4	0,14	16,9
	min	950	5,4	41	0,03	1,5	7,4	41,2	0,09	8,2
ACCS15WH	max	2600	14,9	59,0	0,17	5,4	15,1	35,3	0,18	6,0
	min	1350	7,7	43,0	0,05	0,6	10,3	40,7	0,13	3,0
ACCS20WH	max	3800	21,7	58,2	0,24	12,9	22,3	35,4	0,27	15,7
	min	1980	11,3	41,8	0,07	1,6	15,3	40,9	0,19	8,0
ACCS25WH	max	4500	25,8	56,5	0,27	7,1	27,1	35,9	0,33	10,4
	min	2340	13,4	41,2	0,08	0,9	18,5	41,4	0,23	5,2
ACCS30WH	max	5100	29,2	47,5	0,22	6,9	35,2	38,5	0,43	22,5
	min	2660	15,2	35	0,08	1,3	23,5	44,3	0,29	10,9

			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]**
ACCS10WH	max	1900	10,9	57,4	0,11	11,3	12,9	38,2	0,29	64,1
	min	950	5,4	40,0	0,03	1,3	8,5	44,7	0,19	30,4
ACCS15WH	max	2600	14,9	58,0	0,15	4,2	17,7	38,3	0,39	23,3
	min	1350	7,7	42,6	0,05	0,6	12,0	44,3	0,27	11,4
ACCS20WH	max	3800	21,7	57,0	0,21	10,1	25,9	38,2	0,58	60,0
	min	1980	11,3	41,0	0,07	1,4	17,6	44,4	0,39	29,8
ACCS25WH	max	4500	25,8	55,5	0,24	8,0	31,7	38,9	0,71	40,9
	min	2340	13,4	40,5	0,08	1,1	21,4	45,1	0,48	28,7
ACCS30WH	max	5100	29,2	46,4	0,20	5,8	40,5	41,6	0,89	85,4
	min	2660	15,2	34,0	0,08	1,1	26,9	48,0	0,60	40,4

*[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

ACCS WH, Vertical mounting

			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]**
ACCS20WH	max	3800	21,9	32,4	0,07	1,5	31,9	42,7	0,13	4,8
	min	1980	11,4	26,1	0,03	0,4	21,3	49,7	0,09	2,3
ACCS25WH	max	4500	26,0	34,9	0,09	2,2	35,2	41,0	0,14	5,8
	min	2340	13,5	27,3	0,04	0,6	23,7	47,9	0,10	2,8
ACCS30WH	max	5100	29,4	23,6	0,08	1,2	57,8	51,3	0,24	8,5
	min	2660	15,4	20,6	0,04	0,4	38,5	60,6	0,16	3,9

			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]**
ACCS20WH	max	3800	21,9	37,6	0,10	3,1	36,6	46,3	0,45	52,3
	min	1980	11,4	29,6	0,05	0,7	24,3	54,1	0,30	23,5
ACCS25WH	max	4500	26,0	40,7	0,13	4,8	40,4	44,4	0,49	63,5
	min	2340	13,5	31,2	0,06	1,0	27,1	52,1	0,33	29,1
ACCS30WH	max	5100	29,4	27,0	0,11	2,3	62,3	53,9	0,76	82,3
	min	2660	15,4	22,5	0,06	0,6	40,6	62,9	0,50	35,6

			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]**
ACCS20WH	max	3800	21,9	41,1	0,14	5,5	30,3	41,5	0,37	36,3
	min	1980	11,4	32,0	0,06	1,1	20,1	47,9	0,25	16,4
ACCS25WH	max	4500	26,0	44,4	0,18	9,0	33,4	39,9	0,41	44,1
	min	2340	13,5	33,8	0,07	1,6	22,4	46,2	0,27	20,3
ACCS30WH	max	5100	29,4	29,5	0,14	3,4	51,9	48,0	0,63	57,8
	min	2660	15,4	23,8	0,07	1,2	33,9	55,5	0,41	25,3

			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]**
ACCS20WH	max	3800	21,9	40,3	0,13	4,8	35,1	45,2	0,78	156,4
	min	1980	11,4	31,5	0,06	1,0	23,3	52,6	0,52	69,7
ACCS25WH	max	4500	26,0	43,3	0,16	7,8	38,8	43,4	0,86	190,3
	min	2340	13,5	33,3	0,07	1,5	26,0	50,7	0,58	86,4
ACCS30WH	max	5100	29,4	29,0	0,13	3,1	58,9	52,0	1,31	239,4
	min	2660	15,4	23,7	0,06	0,8	38,1	60,2	0,85	101,6

*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

ACCS WL, Horizontal mounting

			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]**
ACCS10WL	max	1900	10,9	39,0	0,06	5,4	15,4	42,1	0,19	35,0
	min	950	5,4	29,0	0,03	1,1	9,9	49,0	0,12	15,9
ACCS15WL	max	2600	14,9	27,5	0,07	2,1	27,9	49,9	0,34	33,3
	min	1350	7,8	25,3	0,03	0,7	17,7	57,0	0,22	14,9
ACCS20WL	max	3800	21,8	29,5	0,11	1,8	39,7	49,0	0,48	24,7
	min	1980	11,3	27,1	0,05	0,5	25,3	56,0	0,31	11,1
ACCS25WL	max	4500	25,9	27,5	0,12	2,8	48,8	50,2	0,60	44,4
	min	2340	13,4	24,2	0,06	0,8	31,0	57,4	0,38	19,8
ACCS30WL	max	5100	29,2	25,9	0,13	3,9	57,1	51,2	0,70	70,2
	min	2660	15,3	22,5	0,06	1,2	36,2	58,4	0,44	31,2

			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]**
ACCS10WL	max	1900	10,9	43,5	0,36	11,8	12,3	37,2	0,15	23,8
	min	950	5,4	32,0	0,12	1,9	8,0	42,9	0,10	11,1
ACCS15WL	max	2600	14,9	30,5	0,33	3,5	22,5	43,7	0,28	23,3
	min	1350	7,7	26,0	0,15	1,0	14,2	49,3	0,17	10,4
ACCS20WL	max	3800	21,7	32,5	0,51	3,0	31,8	42,8	0,39	17,0
	min	1980	11,4	27,7	0,23	0,8	20,3	48,4	0,25	7,7
ACCS25WL	max	4500	25,9	30,5	0,57	4,6	39,4	44,0	0,48	31,1
	min	2340	13,4	25,1	0,26	1,2	24,9	49,6	0,30	13,8
ACCS30WL	max	5100	29,2	28,7	0,62	6,3	45,9	44,7	0,56	48,7
	min	2660	15,3	23,6	0,29	1,7	29,2	50,6	0,36	21,8

Output charts water

ACCS WL, Horizontal mounting

			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]**
ACCS10WL	max	1900	10,9	49,0	0,24	56,9	9,0	32,1	0,11	14,3
	min	950	5,4	36,5	0,06	4,5	5,9	36,4	0,07	6,7
ACCS15WL	max	2600	14,9	35,0	0,14	8,0	16,8	37,2	0,20	14,3
	min	1350	7,7	27,5	0,06	1,6	10,7	41,6	0,13	6,5
ACCS20WL	max	3800	21,7	37,0	0,23	7,2	23,5	36,3	0,28	10,3
	min	1980	11,4	29,2	0,09	1,4	15,1	40,6	0,18	4,7
ACCS25WL	max	4500	25,9	34,5	0,24	9,9	29,3	37,3	0,36	18,9
	min	2340	13,4	27,5	0,10	2,1	18,7	41,8	0,23	8,6
ACCS30WL	max	5100	29,2	32,8	0,26	13,3	34,6	38,2	0,42	30,5
	min	2660	15,3	26,3	0,11	3,0	22,0	42,6	0,27	13,7

			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]**
ACCS10WL	max	1900	-	-	0,17	-	7,4	29,6	0,09	10,3
	min	950	5,5	39,5	0,09	9,3	4,9	33,2	0,06	4,9
ACCS15WL	max	2600	15,0	38,0	0,21	15,8	13,9	33,8	0,17	10,5
	min	1350	7,8	30,0	0,08	2,6	8,9	37,5	0,11	4,8
ACCS20WL	max	3800	21,7	39,5	0,34	14,2	19,4	33,1	0,23	7,5
	min	1980	11,35	31,4	0,12	2,2	12,5	36,7	0,15	3,5
ACCS25WL	max	4500	25,8	37,5	0,36	19,4	24,2	34,0	0,29	13,8
	min	2340	13,4	29,6	0,13	3,3	15,5	37,7	0,19	6,3
ACCS30WL	max	5100	29,3	35,8	0,37	24,7	28,7	34,7	0,35	22,3
	min	2660	15,3	28,5	0,14	4,6	18,4	38,5	0,22	10,2

– = 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

ACCS WL, Vertical mounting

			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]**
ACCS20WL	max	3800	21,8	29,3	0,10	2,0	39,1	48,5	0,48	27,7
	min	1980	11,3	26,8	0,05	0,6	24,1	55,7	0,57	11,7
ACCS25WL	max	4500	25,8	31,5	0,13	2,9	43,4	46,7	0,53	33,4
	min	2340	13,4	26,3	0,06	0,8	27,9	53,4	0,34	15,2
ACCS30WL	max	5100	29,2	28,7	0,14	4,1	52,1	48,3	0,64	57,6
	min	2660	15,3	23,9	0,07	1,2	33,3	55,1	0,41	25,8

			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]**
ACCS20WL	max	3800	21,8	32,7	0,14	3,5	31,1	42,3	0,38	18,9
	min	1980	11,3	27,4	0,06	0,9	19,9	47,8	0,24	8,6
ACCS25WL	max	4500	25,8	35,1	0,18	5,2	34,7	40,9	0,42	23,0
	min	2340	13,4	27,7	0,08	1,2	22,3	46,3	0,27	10,5
ACCS30WL	max	5100	29,2	32,2	0,19	7,1	41,7	42,3	0,51	39,7
	min	2660	15,3	25,5	0,08	1,8	26,7	47,8	0,33	18

			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]**
ACCS20WL	max	3800	21,8	37,2	0,23	8,3	23,1	36,1	0,28	11,6
	min	1980	11,3	29,2	0,09	1,6	14,9	40,3	0,18	5,3
ACCS25WL	max	4500	25,8	40,0	0,31	14,0	25,8	35,0	0,31	14,0
	min	2340	13,4	31,0	0,11	2,1	16,7	39,2	0,20	6,5
ACCS30WL	max	5100	29,2	37,0	0,31	17,1	31,1	36,1	0,38	24,4
	min	2660	15,3	28,9	0,12	3,3	20,0	40,4	0,24	11,2

*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.

Technical specifications | ACCS E with Electrical heat

Type	Outout steps [kW]	Airflow*2 [m³/h]	Δt*4 [°C]	Sound level*3 [dB(A)]	Voltage motor [V]	Amperage motor [A]	Voltage [V] Amperage [A] (heat)	Length [mm]	Weight [kg]
ACCS10E08*1	2,7/5,4/8,1	950/1900	25/13	44/61	230V~	2,2	400V3~/11,7	1000	50
ACCS15E12*1	3,9/7,8/11,7	1350/2600	26/13	45/62	230V~	2,9	400V3~/16,9	1500	65
ACCS20E16	5,4/10,8/16,2	1980/3800	24/13	47/64	230V~	4,3	400V3~/23,4	2000	95
ACCS25E20	6,6/13,2/19,8	2340/4500	25/13	48/65	230V~	5,1	400V3~/28,6	2500	110
ACCS30E23	7,8/15,6/23,4	2660/5100	26/14	48/65	230V~	5,8	400V3~/33,8	3000	130

Technical specifications | ACCS WH with water heat, coil for high temperature water (≥80 °C)

Type	Output*5 H*7 [kW]	Output*5 V*8 [kW]	Airflow*2 [m³/h]	Δt*4,5 H*7 [°C]	Δt*4,5 V*8 [°C]	Water volume H*7 [l]	Water volume V*8 [l]	Sound level*3 [dB(A)]	Voltage motor [V]	Amperage motor [A]	Length [mm]	Weight [kg]
ACCS10WH*1	11,1	-	950/1900	23/17	-	2,0	-	44/61	230V~	2,1	1000	50
ACCS15WH*1	15,1	-	1350/2600	23/17	-	3,2	-	45/62	230V~	2,9	1500	65
ACCS20WH	22,3	30,3	1980/3800	23/17	30/24	4,3	3,0	47/64	230V~	4,3	2000	95
ACCS25WH	27,1	33,4	2340/4500	23/18	28/22	5,4	3,0	48/65	230V~	5,0	2500	110
ACCS30WH	35,2	51,9	2660/5100	26/21	38/30	6,6	5,6	48/65	230V~	5,7	3000	130

Technical specifications | ACCS WL**,** with water heat, coil for high temperature water (≤80 °C) 2

Type	Output*6 H*7 [kW]	Output*6 V*8 [kW]	Airflow*2 [m³/h]	Δt*4,6 H*7 [°C]	Δt*4,6 V*8 [°C]	Water volume H*7 [l]	Water volume V*8 [l]	Sound level*3 [dB(A)]	Voltage motor [V]	Amperage motor [A]	Length [mm]	Weight [kg]
ACCS10WL*1	9,0	-	950/1900	18/14	-	1,1	-	44/61	230V~	2,1	1000	50
ACCS15WL*1	16,8	-	1350/2600	24/19	-	1,9	-	45/62	230V~	2,9	1500	65
ACCS20WL	23,5	23,1	1980/3800	23/18	22/18	2,5	4,4	47/64	230V~	4,3	2000	95
ACCS25WL	29,3	25,8	2340/4500	24/19	21/17	3,3	4,4	48/65	230V~	5,0	2500	110
ACCS30WL	34,6	31,1	2660/5100	25/20	22/18	3,9	5,6	48/65	230V~	5,7	3000	130

*1) Available only for horizontal mounting.

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

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

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

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

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

*7) Horizontal mounting

*8) Vertical mounting

CE compliant.
Protection class: IP20.

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 ACCS air curtain is supplied with electrical heating or hot water heating and is intended to be mounted above or next to the entrances and smaller doors up to 3 metres in height.
Protection class: IP20.

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 for directing exhaust air 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

When mounting ACCS in stainless steel, the protective plastic shall remain on the product. Be careful to not damage the surfaces.

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 air curtain is installed on adjustable feet which makes it possible to compensate for any surface undulations. The feet are attached to the floor with fasteners appropriate to the surface and covered by a frame.

The air curtain must always be secured at the top.
Ensure that the front panel/service hatch is accessible and can be fully opened.
See Fig.1, 2, 5, 6.

Horizontal mounting

The air curtain is installed horizontally with the supply air grille facing downwards as close to the door as possible.

The air curtain may be mounted on the wall with brackets (accessory). The air curtain can also be mounted hanging from the ceiling.
Minimum distance from outlet to floor for electrically heated units is 1800 mm.
Ensure that the front panel/service hatch is accessible and can be fully opened.
See Fig.3, 4, 5, 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.

Unit with water heating

The electrical connection may be done from above or below when mounted vertically, and from left or right when mounted horizontally, according to ordering key. Control (230V~) should be connected to a terminal block.

Unit with electrical heating

The electrical connection may be done from above or below when mounted vertically, and from left or right when mounted horizontally, according to ordering key. Control (230V~) and power supply for heat (400V3~) should

be connected to a terminal block. For units with electrical heating, power and control should be supplied separately.

The largest cable diameter for the terminal block is 16 mm². The cable glands used must meet the protection class requirements. In the distribution board it is to be indicated that ”the air curtains can be supplied from more than one connection”.

See wiring diagrams.

Type	Output [kW]	Voltage [V]	Minimum area*2 [mm²]
Control	0	230V~	1,5
ACCS10E08	8,1	400V3~	2,5
ACCS15E12	11,7	400V3~	4
ACCS20E16	16,2	400V3~	6
ACCS25E20	19,8	400V3~	10
ACCS30E23	23,4	400V3~	10

*) Dimensioning of external wiring shall comply with applicable regulations and local deviations may occur.

Start-up (E)

When the unit is used for the first time or after a long period of disuse, smoke or odour may result from dust or dirt that has collected on the element. This is completely normal and disappears after a short time.

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.
When mounting vertically the water connection can be done from above or below, according to ordering key, with connecting DN25 (1"), inside thread. When mounting horizontally the water connections can be done from the right or left top, according to ordering key, with connecting DN20 (3/4"), inside thread. Flexible hoses are available as accessories, see accessories pages.
NOTE: Care must be taken when connecting the pipes. Use a wrench or similar to hold the air curtain connections to prevent straining of the pipes and subsequent water leakage during connection to water supply pipe-work.

The connections to the heating coil must be equipped with shut off valves to allow problem free removal. A vent valve should be connected at a high point in the pipe system.

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 front plate/service hatch is opened by unscrew the screws in the side of the unit/ upper side.

Maintenance

Unit with water heating:The intake grille should be cleaned regularly to ensure the air curtain effect and the heat emission from the device. How often depends on local circumstances. A clogged grille is not a risk, but the appliance function can fail. Vacuum the intake grille regularly from outside when dust is visible, for example as a part of the cleaning routine.

All units:
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

The air curtain unit with electric heater is equipped with an overheat protector. If it is deployed due to overheating, reset as follows:

1. Disconnect the electricity with the fully isolated switch.
2. Allow the electrical coil to cool.
3. Determine the cause of overheating and rectify the fault.
4. Connect the air curtain again.

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 heating elements/heating package (E)

1. Mark and disconnect the cables to the heating elements/package
2. Remove the mounting screws securing the heating elements/package in the unit and lift the heaging elements/package out.
3. Install the new heating elements/package in reverse order to the above.

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. 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 electrical heating, also check the following:
- Power supply to electric heater coil; check fuses and circuit-breaker (if any).
- That the overheat protection for the motors has not been deployed.

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.

Residual current circuit breaker (E)

When the installation is protected by means of a residual current circuit breaker, which trips when the appliance is connected, this may be due to moisture in the heating element. When an appliance containing a heater element has not been used for a long period or stored in a damp environment, moisture can enter the element.

This should not be seen as a fault, but is simply rectified by connecting the appliance to the main supply via a socket without a safety cut-out, so that the moisture can be eliminated from the element. The drying time can vary from a few hours to a few days. As a preventive measure, the unit should occasionally be run for a short time when it is not being used for extended periods of time.

Safety

- *For all installations of electrically heated products should a residual current circuit breaker 300 mA for fire protection be used.*
- *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!*
- *The unit must not be fully or partially covered with clothing, or similar materials, as overheating can result in a fire risk! (E)*
- *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.*

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