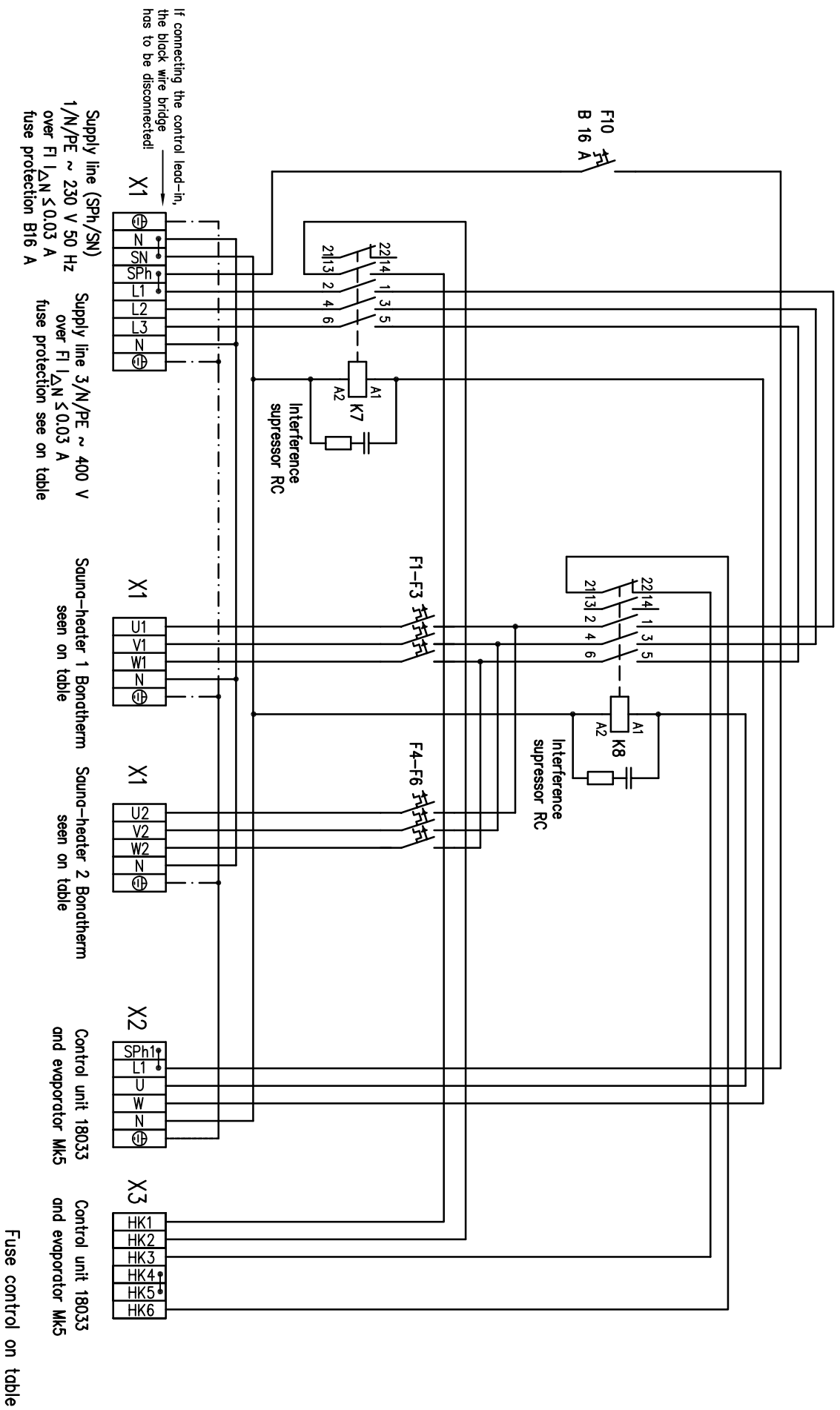


Circuit- and  
Installation diagram  
for  
**Profi-Sanarium**  
**Control unit**  
**18033**

with two heaters  
18 kW - 30 kW

# Main circuit in power unit with relay

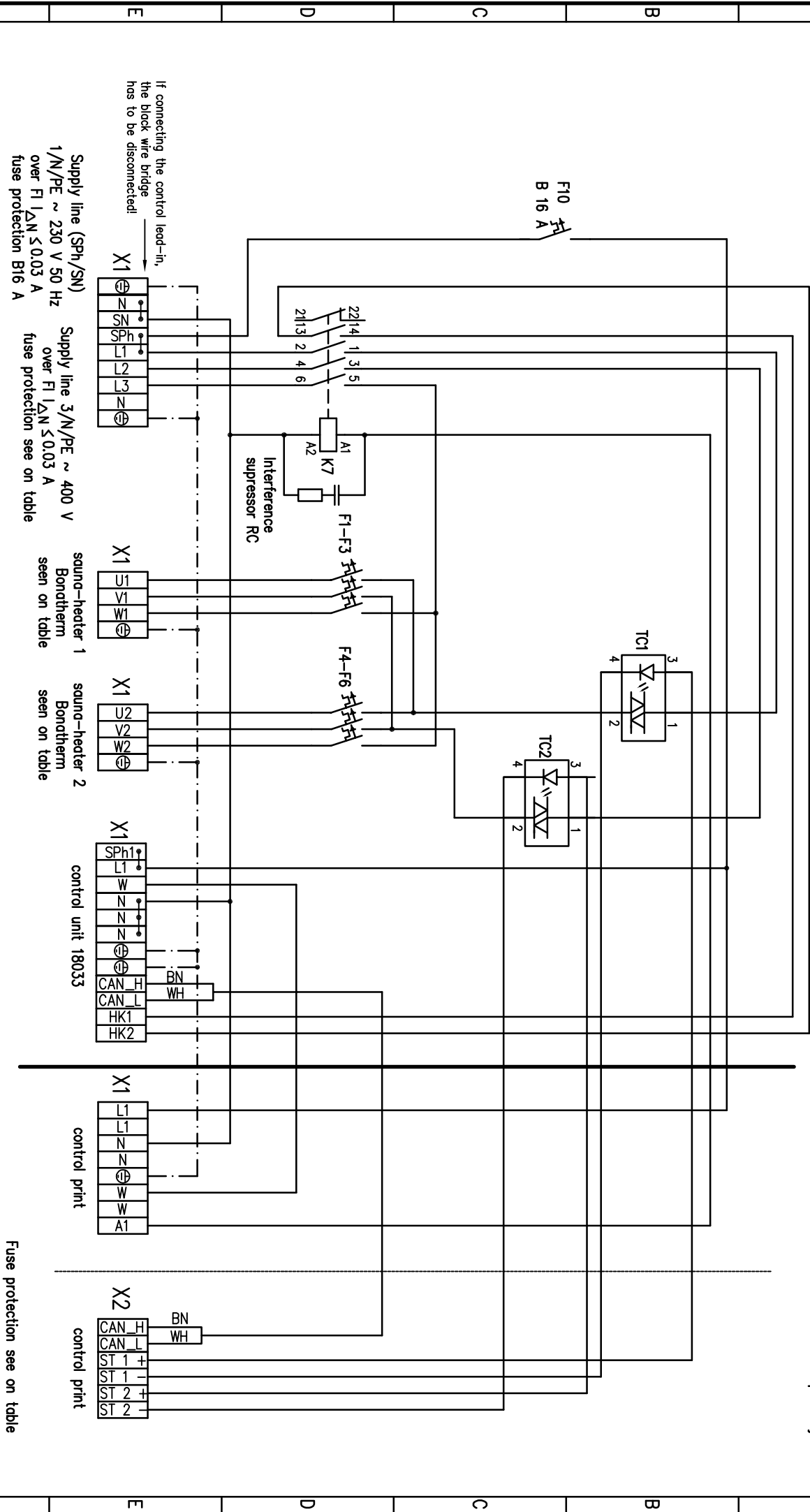


Datum		6.5.2010		main circuit		Erich-Klats-Str. 1-3		control unit 18033		Blatt 1	
Bearb.		Vherr		power unit with relay		74523 Schwäbisch Hall		18 kW – 30 kW		von 11 Bl	
Gepr.				Ers.f.				50701226			
Norm				Ers.d.							
Änderung		Datum		Name		Urspr.					
1											
2											
3											
4											
5											
6											
7											
8											



# main circuit in power unit with semiconductor relay

Attention!  
Low voltage, transfer  
lead separately.



If connecting the control lead-in, the black wire bridge has to be disconnected!

Supply line (Sph/SN)  
1/N/PE ~ 230 V 50 Hz  
over FI I<sub>ΔN</sub> ≤ 0.03 A  
fuse protection B16 A

Supply line 3/N/PE ~ 400 V  
over FI I<sub>ΔN</sub> ≤ 0.03 A  
fuse protection see on table

sauna-heater 1  
Bonathern  
seen on table

sauna-heater 2  
Bonathern  
seen on table

control unit 18033

control print

control print

Fuse protection see on table

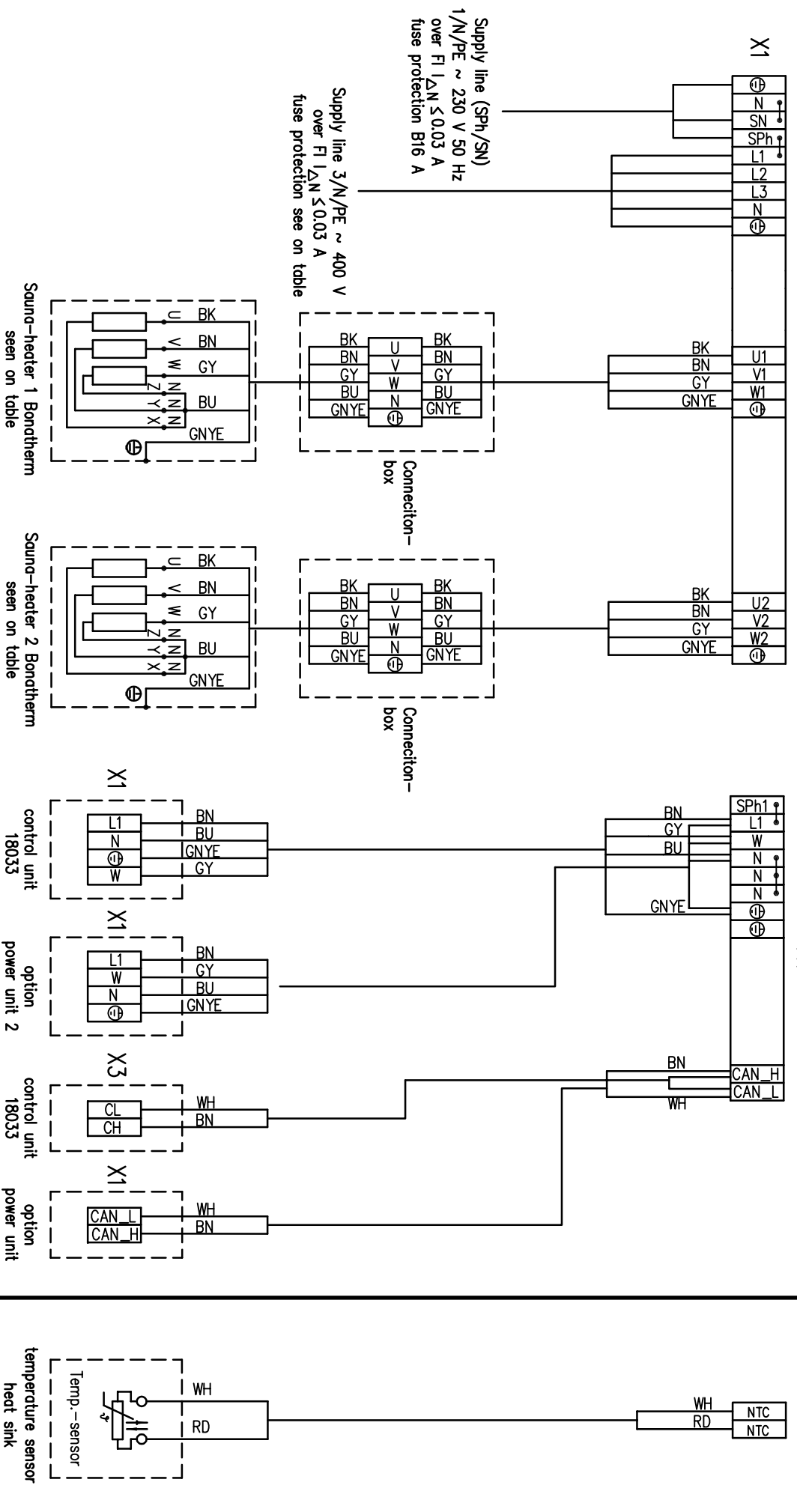
Datum		6.5.2010		main circuit		power unit semiconductor		Erich-Klafs-Str. 1-3 74523 Schwäbisch Hall		Profi – Sanarium		control unit 18033		=	
Bearb.		Vherr		power unit semiconductor		Ers.f.		Ers.d.		18 kW – 30 kW		control print		50701226	
Gepr.				Ers.f.		Ers.d.				50701226		control print		Blatt 3	
Norm				Ers.f.		Ers.d.				50701226		control print		von 11 Bl	
Änderung				Ers.f.		Ers.d.				50701226		control print			
Datum				Ers.f.		Ers.d.				50701226		control print			
Name				Ers.f.		Ers.d.				50701226		control print			
Index				Ers.f.		Ers.d.				50701226		control print			

# Terminal block in power unit with semiconductor relay

If connecting the control lead-in, the block wire bridge has to be disconnected!

Control print

Attention!  
Low voltage, transfer lead separately.



Index		Änderung		Datum		Name		Norm	
1		2		3		4		5	
6		7		8		9		10	
11		12		13		14		15	
16		17		18		19		20	
21		22		23		24		25	
26		27		28		29		30	
31		32		33		34		35	
36		37		38		39		40	
41		42		43		44		45	
46		47		48		49		50	
51		52		53		54		55	
56		57		58		59		60	
61		62		63		64		65	
66		67		68		69		70	
71		72		73		74		75	
76		77		78		79		80	
81		82		83		84		85	
86		87		88		89		90	
91		92		93		94		95	
96		97		98		99		100	

connecting diagram power unit semiconductor

**KLAFES**  
Erich-Klafs-Str. 1-3  
74523 Schwöbisch Hall

Profi - Sanarium  
18 kW - 30 kW

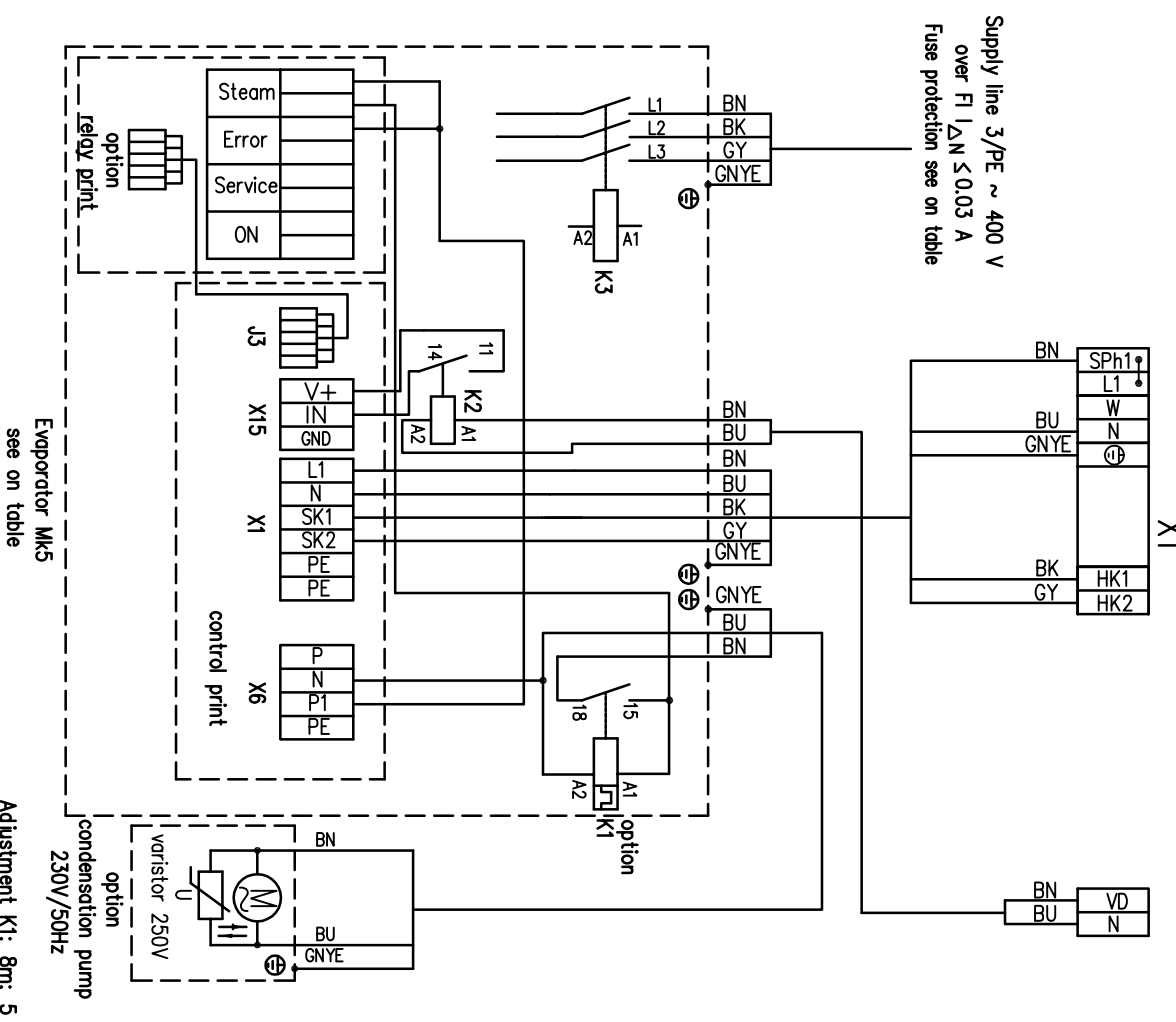
control unit 18033

50701226

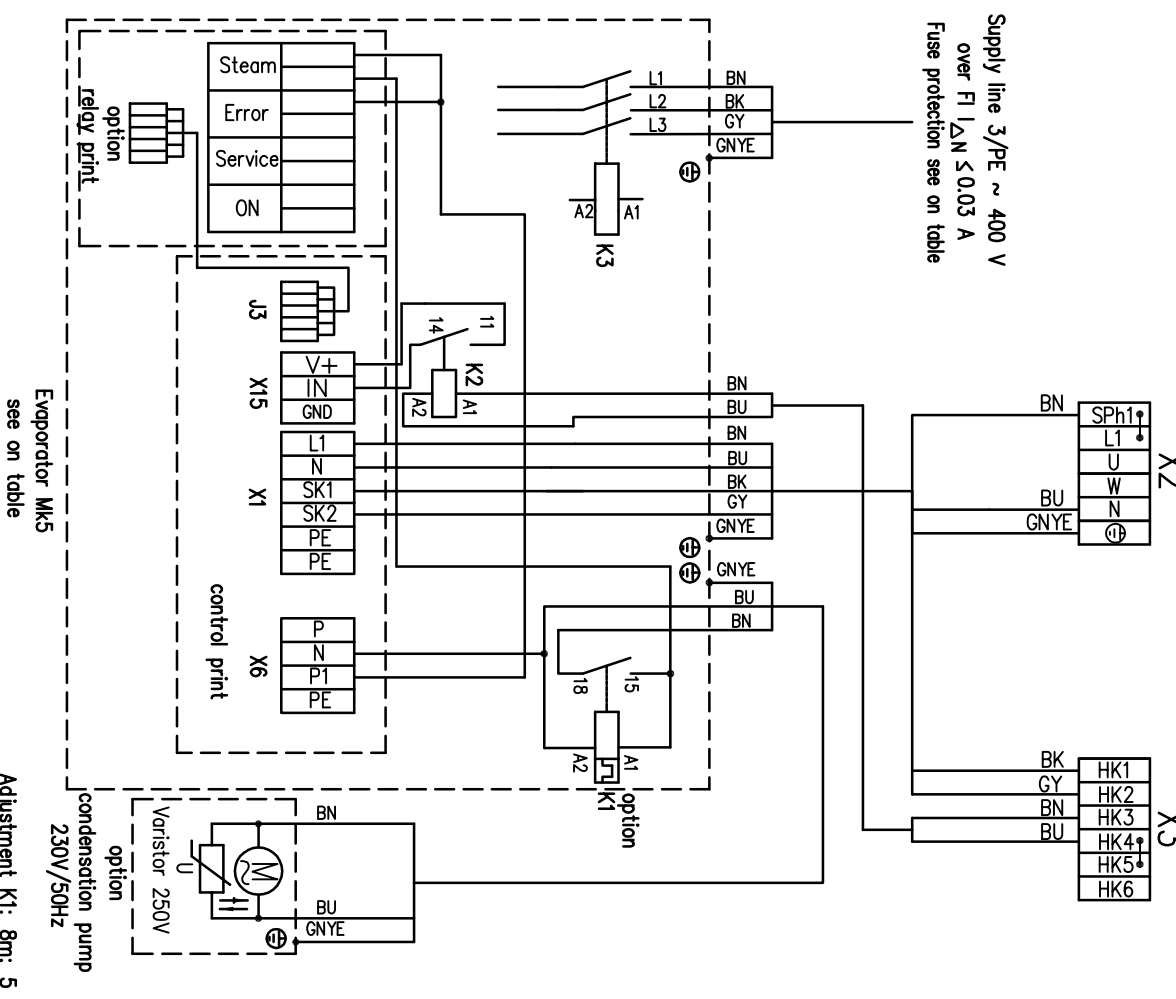
Datum: 6.5.2010  
Bearb.: Vherr  
Gepr.:  
Urspr.:  
Ers.f.:  
Ers.d.:

Blatt 4 von 11 Bl.

# Power unit 1 with semiconductor relay control unit Terminal block 18033



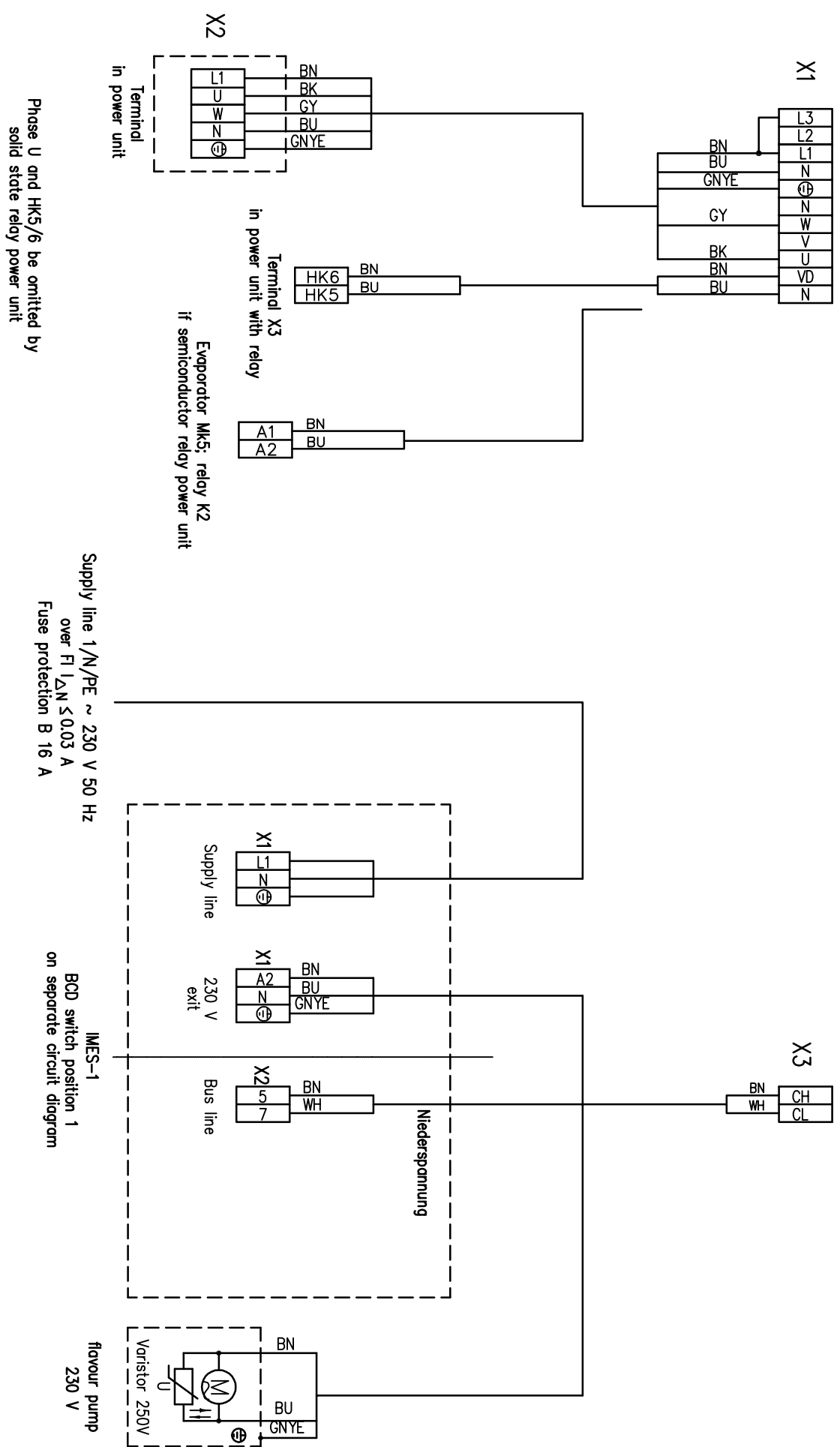
# Power unit 1 with relay control unit Terminal block



Index		Änderung		Datum		Name		Norm	
Datum		6.5.2010		Bearb.		Vherr		Gepr.	
connecting diagram		evaporator		Urspr.		Ers.f.		Ers.d.	
Profi – Sanarium		18 kW – 30 kW		control unit 18033		50701226		Blatt 5 von 11 Bl	

**KLAFS**  
Erich-Klafs-Str. 1-3  
74523 Schwäbisch Hall

# Terminal block in control unit 18033 and IMES-1



Phase U and HK5/6 be omitted by solid state relay power unit

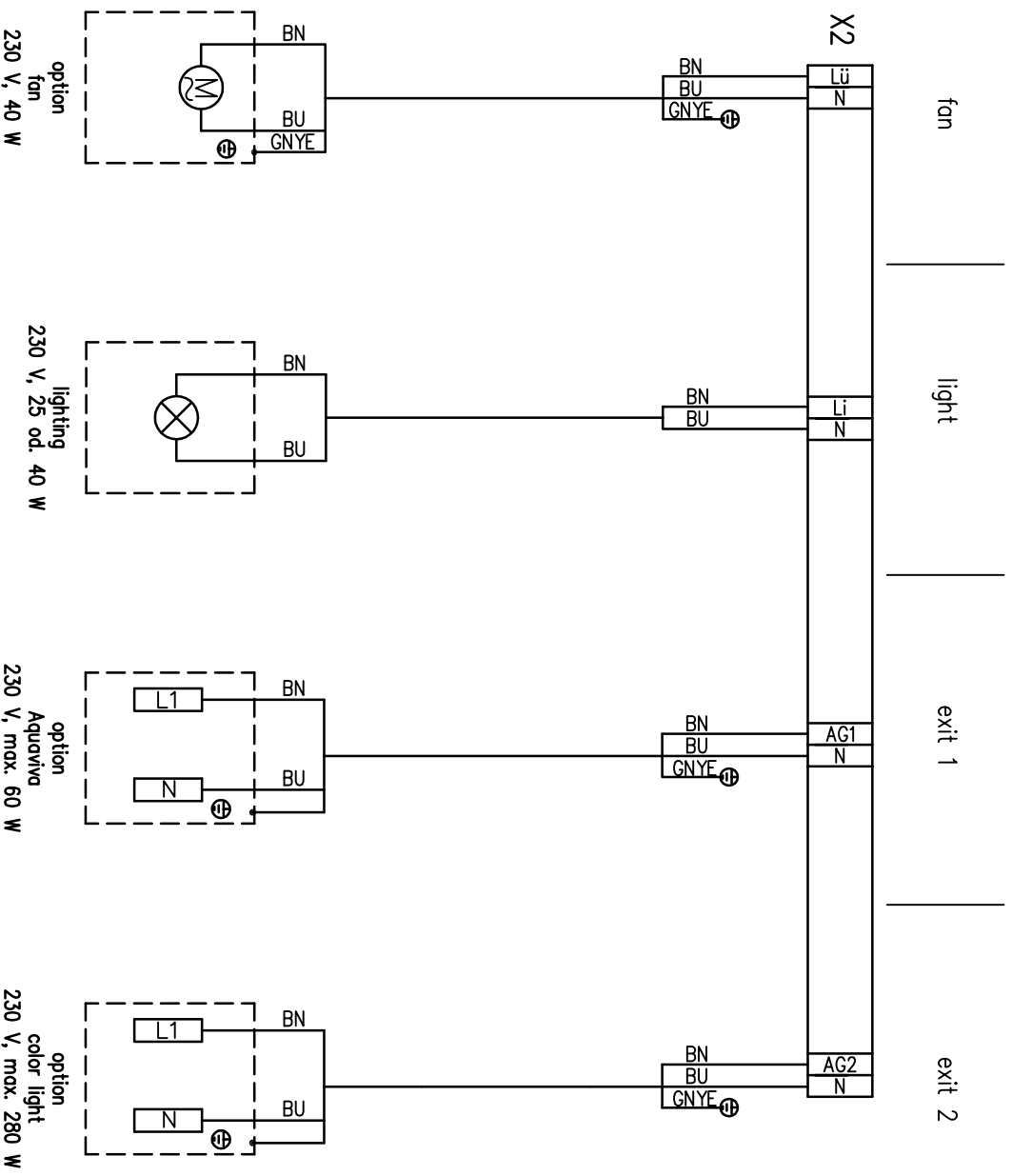
Supply line 1/N/PE ~ 230 V 50 Hz  
 over FI I<sub>AN</sub> ≤ 0.03 A  
 Fuse protection B 16 A

IMES-1  
 BCD switch position 1  
 on separate circuit diagram

flavour pump  
 230 V  
 Varistor 250V

Index		Änderung		Datum		Name		Norm	
Datum		6.5.2010		Bearb.		VHerr		Gepr.	
connecting diagram		control unit 18033		Ers.f.		Ers.d.		KLAFFS	
Erich-Klats-Str. 1-3		74523 Schwöbisch Hall		Profi - Sanarium		18 kW - 30 kW		control unit 18033	
50701226		Blatt 6		von 11 Bl.					

# Connection clamp in control unit 18033

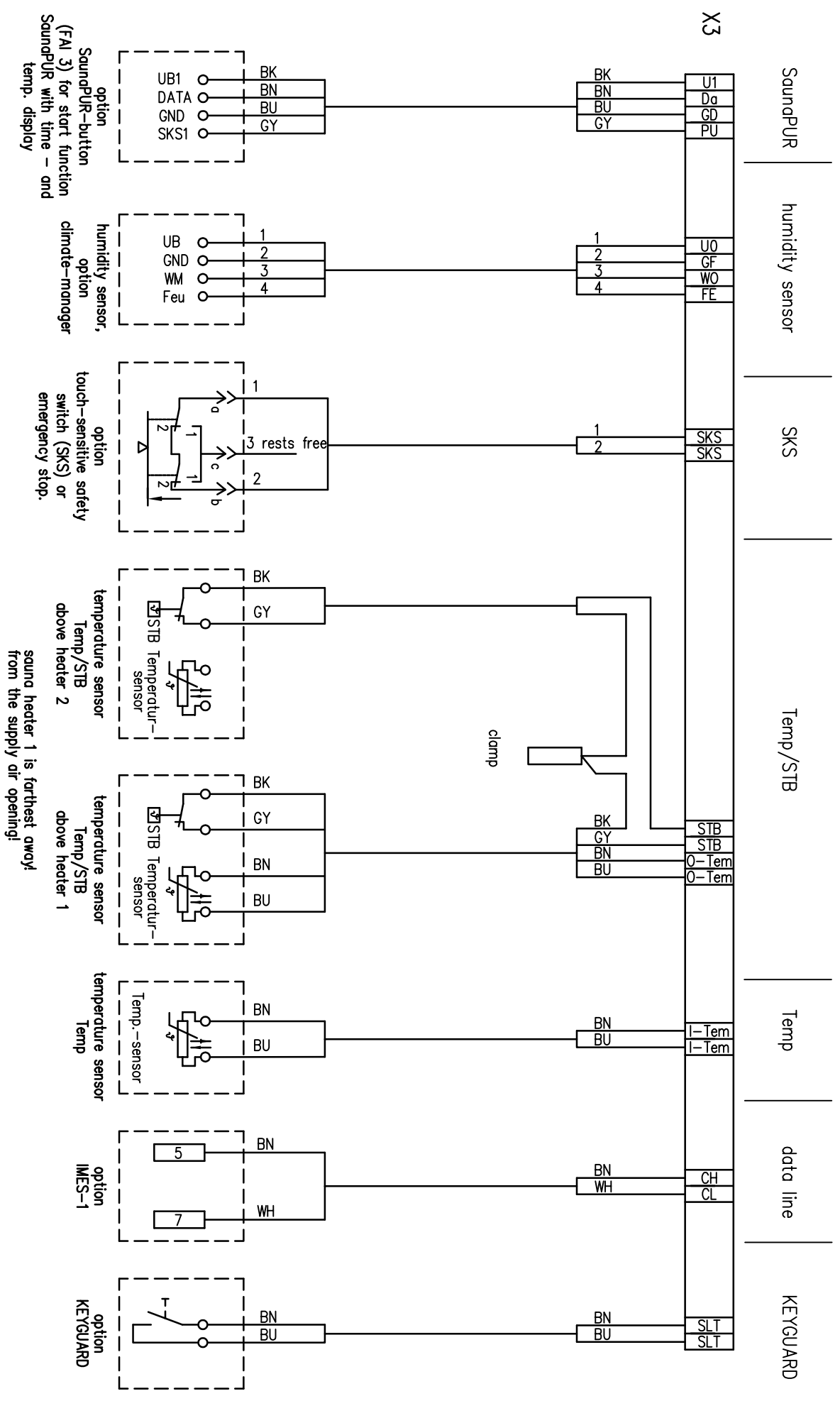


**Warning !**  
 exit 1 + light + fan = max. 280 W

Datum		6.5.2010		connecting diagram		control unit 18033		KLAFFS		Erich-Klafs-Str. 1-3		Profi – Sanarium		control unit 18033	
Bearb.		Vherr		control unit 18033		Ers.f.		74523 Schwäbisch Hall		Ers.d.		18 kW – 30 kW		control unit 18033	
Gepr.				Ers.f.								50701226		Blatt 7	
Norm				Ers.d.										von 11 Bl	
Änderung		Datum		Name		Norm									
1		2		3		4		5		6		7		8	



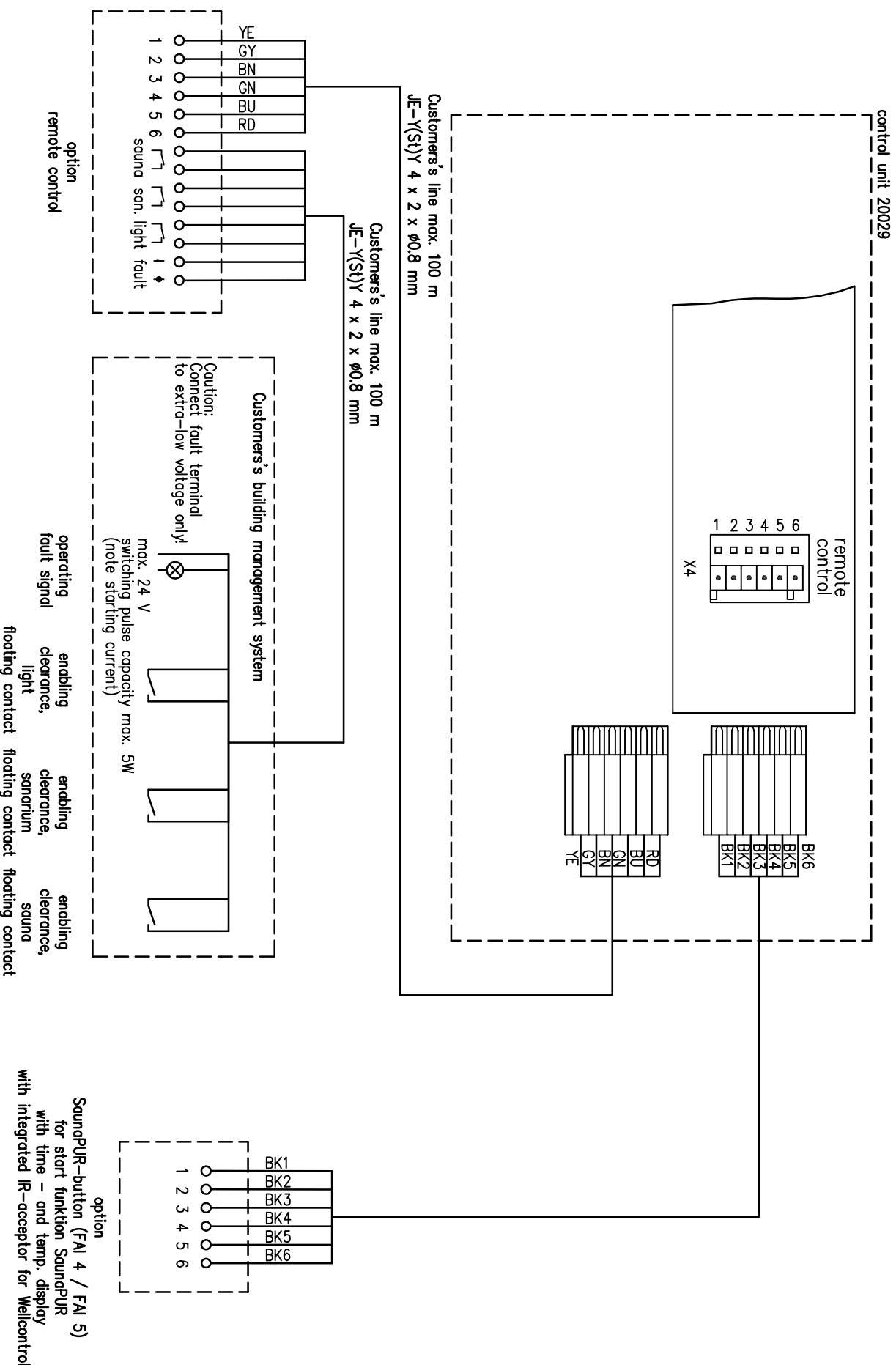
# Terminal block in control unit 18033



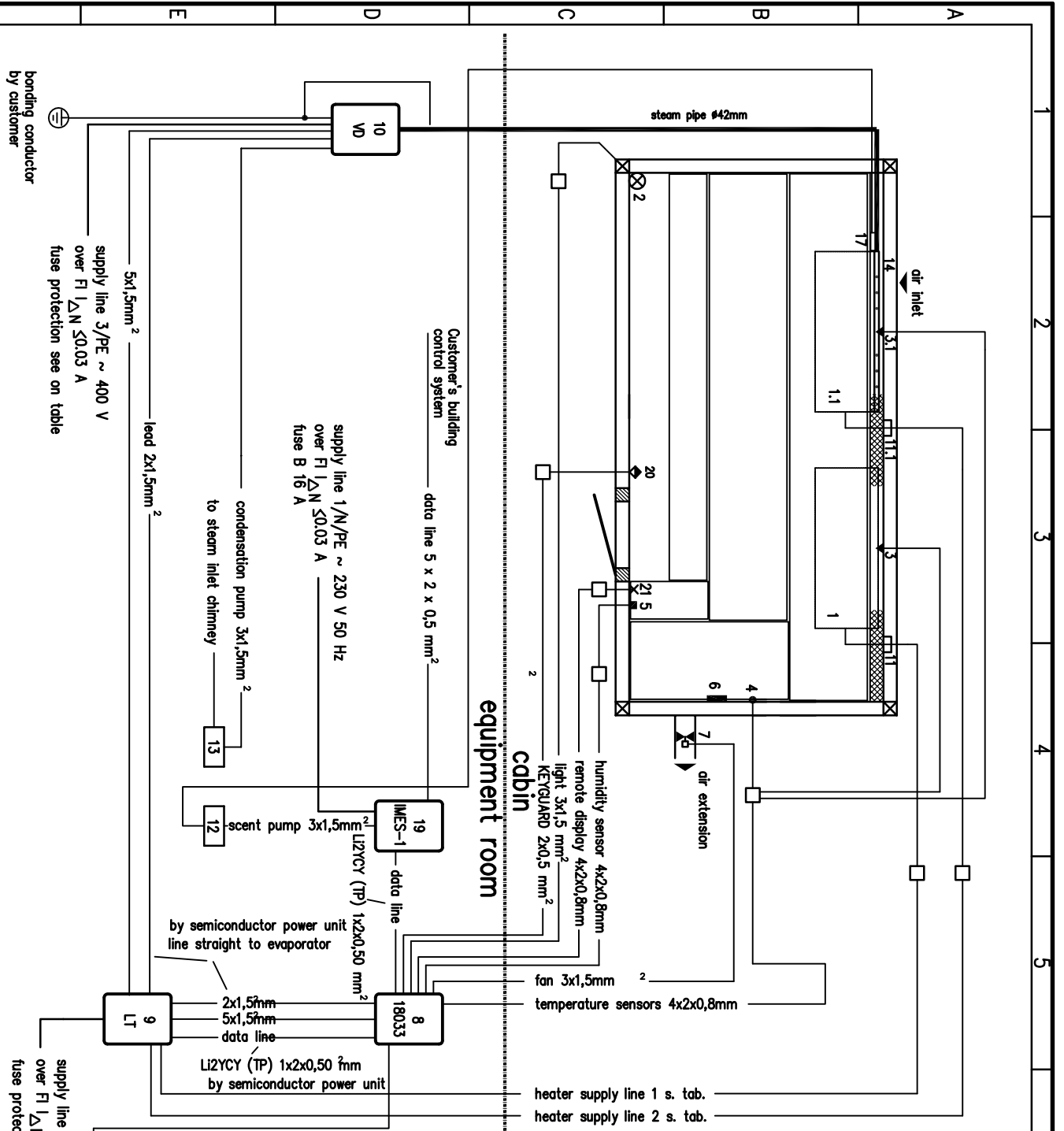
sauna heater 1 is farthest away!  
from the supply air opening!

Index	Änderung	Datum	Name	Norm	connecting diagram control unit 18033		Ers.f.		
		6.5.2010	Vherr		control unit 18033		Ers.d.		
					KLAFFS		Erich-Klafs-Str. 1-3		
					18 kW – 30 kW		74523 Schwäbisch Hall		
					Profi – Sanarium		control unit 18033		
					50701226		Blatt 8		
							von 11 Bl		

# Connecting clamp in control unit 18033



Index		Änderung		Datum		Name		Norm	
Datum		6.5.2010		Bearb.		Vherr		Gepr.	
connecting diagram		control unit 18033		Urspr.		Ers.f.		Ers.d.	
KLAFFS		Erich-Klars-Str. 1-3		74523 Schwabisch Hall		Profi - Sanarium		18 kW - 30 kW	
control unit 18033		control unit 18033		50701226		control unit 18033		50701226	
Blatt 9		von 11 Bl.							



- Legend:**
- 1 = Sauna-heater 1
  - 1.1 = Sauna-heater 2
  - 2 = light, height of cable bushing = 1,75 m above finished floor
  - 3 = Temperature probe Temp/STB height = 0,10 m below grille hot-air shaft in the middle above heating unit (middle of the housing)
  - 3.1 = STB height = 0,10 m below grille hot air shaft in the middle above heating unit (middle of the housing)
  - 4 = Temperature probe Temp height = 0,15 m below sauna ceiling (middle of the housing). The limiter unit is mounted at 2,10 when the sauna is higher than 2,20.
  - 5 = Humidity sensor Type FRL + optional Climate-Manager height = 1,38 m top edge housing above finished floor. horizontal min. 1 m steam inlet
  - 6 = Thermometer, height = 0,15 m below sauna ceiling. (middle of the housing)
  - 7 = fan 230 V
  - 8 = Control unit 18033 Height 1,65 m above finished floor level (centre of display).
  - 9 = Power unit
  - 10 = Evaporator Mk5 Visual (seen on table 1)
  - 11 = heating unit-connection box
  - 11.1 = heating unit-connection box
  - 12 = scent pump
  - 13 = Condensation pump (Option)
  - 14 = Steam pipe Art. Nr. 519/40
  - 17 = Scent basin
  - 18 = Remote control (Option)
  - 19 = IMES-1
  - 20 = KETGUARD (Option)
  - 21 = Remote display for temperature, time and moisture height = 1,35m top edge housing above finished floor (Option)

**Important:**

All electric cables inside the sauna have to be covered with silicon!  
 In case of external control board and power switch junction boxes have to be attached near the sauna cabin, to get a transition of NYM-cables to silicon.  
 When determining the core specifications of electrical cables, please make due allowance for the length of cable required and the ambient temperature (to comply to VDE 0100, part 430, Nov'91)  
 Ambient temperature equipment room 0°C - 40°C  
 High humidity 80% RH

Customer's line JE-Y(S)Y 4 x 2 x Ø0,8 mm building control  
 Option: Customer's control unit 18033  
 supply line 3/N/PE ~ 400 V over FI IΔN 50,03 A fuse protection see on table

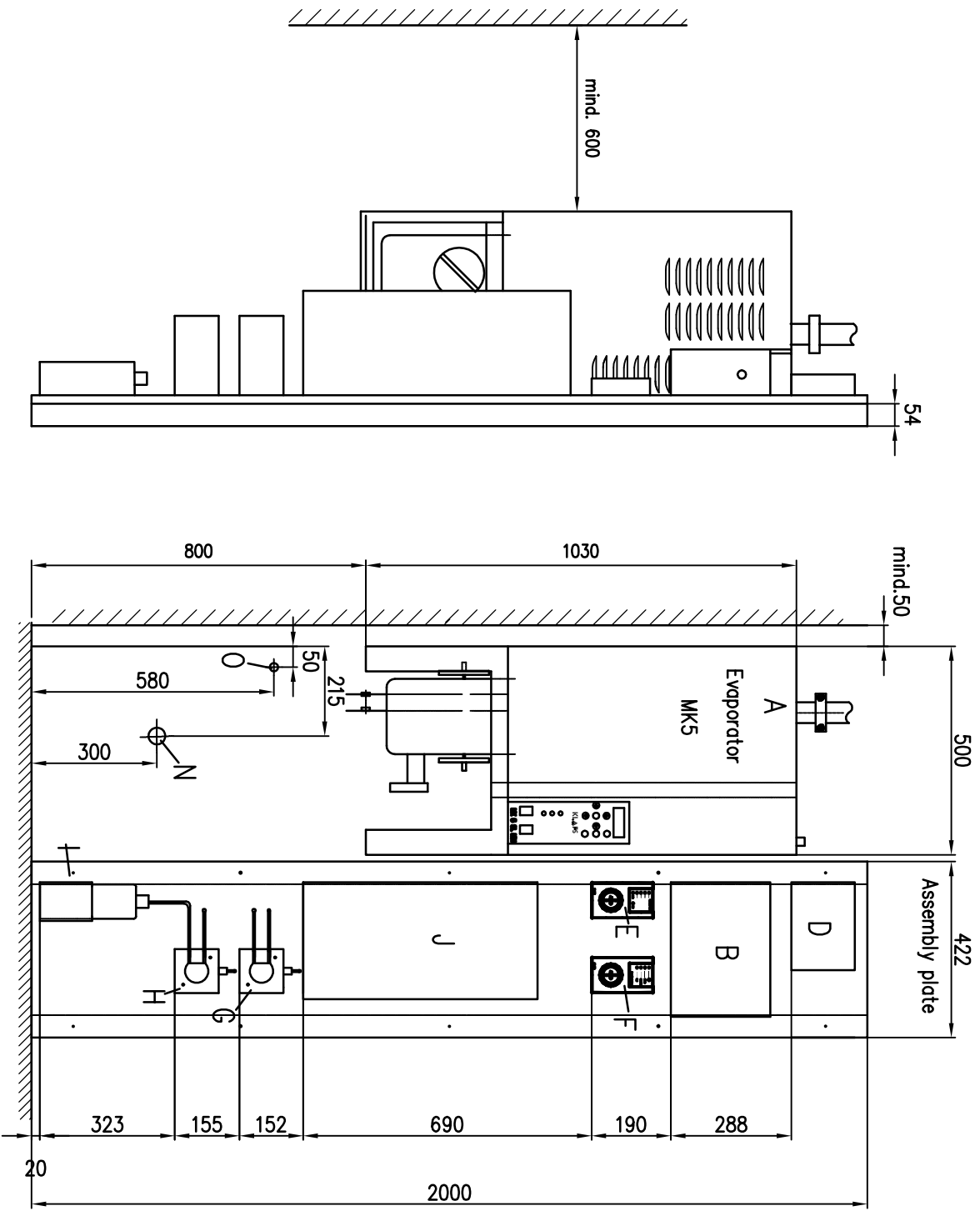
Index		Änderung		Datum		Name		Norm	
1				6.5.2010		Vherr			
2				6.5.2010		Vherr			
3				6.5.2010		Vherr			
4				6.5.2010		Vherr			
5				6.5.2010		Vherr			
6				6.5.2010		Vherr			
7				6.5.2010		Vherr			
8				6.5.2010		Vherr			

Installation diagram		Datum		6.5.2010	
Bondtherm		Bearb.		Vherr	
Ers.f.		Gepr.			
Urspr.		Name			
Ers.d.		Norm			

Profi - Sanarium		control unit 18033		=	
18 kW - 30 kW		50701226		+	
		Blatt 10		von 11 Bl	



- A Evaporator Mk5
- B Control unit
- D IMES-1
- E Light field-control unit Typ 16072 (Option)
- F Remote control (Option)
- G Condensation pump (Option)
- H Scent pump
- I Scent
- J Power unit
- N Water drain HT-pipe NW 40 with condensation pump
- O Water intake R 1/2" cold corner valve R 1/2"

Index		Änderung		Datum		Name		Datum		6.5.2010		Bearb.		Vherr	
Installation diagram		assembly plate		Urspr.		Ers.f.		Ers.d.		74523 Schwäbisch Hall		Profi - Sanarium		18 kW - 30 kW	
control unit 18033		50701226		=		+		Blatt 11		von 11 Bl					