

Service manual and spare parts list

Drying cabinet ProLine FC 20

Thank you for choosing our drying cabinet FC 20. We hope that it will be of great use for you.

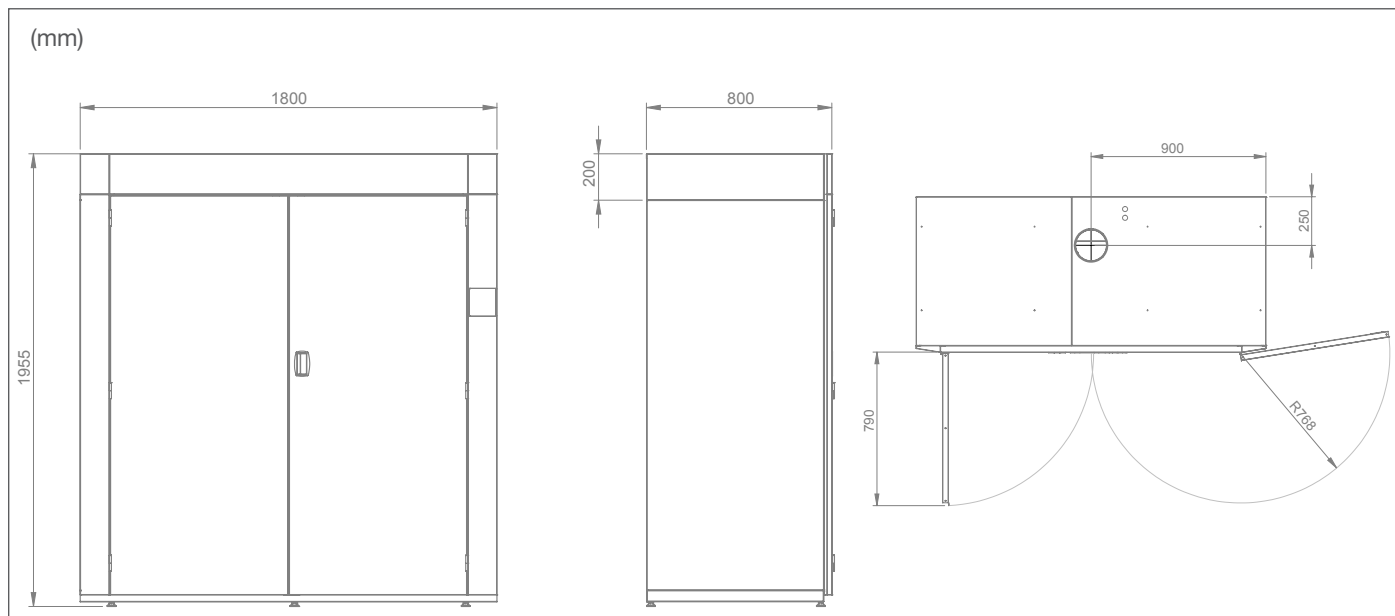
Contents

Specification	4
Dimensions	4
Technical information	4
Main control board	5
Setup menu	5
Parameter list	6
Explanation of parameters	6
Error codes	8
Spare parts list	9
Cabinet	9
Top	10
Electrical drawing	11-13

Specification

Dimensions

Measurements shown in millimeter (mm).



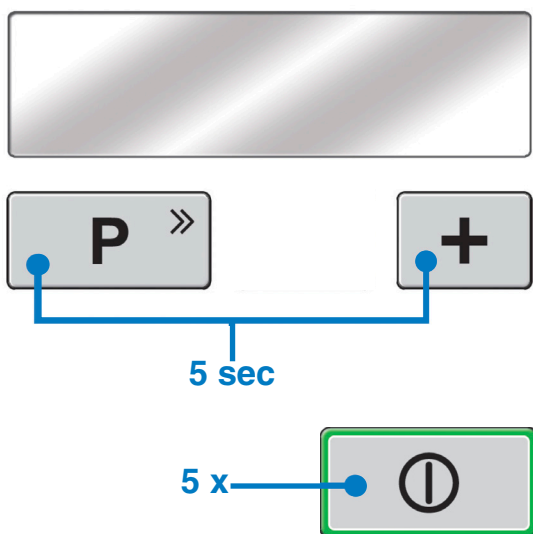
Main control board

The drying cabinet can be customized by adjusting the main control board's parameters. The following pages describe how to adjust the parameters.

Setup menu

Activate the setup menu

To enter the setup menu; press both the "P" button and the "+" button for about 5 seconds until the screen shows "SETUP MENU FC20". Push the START button, 5 times continuously, to enter the parameter list.



Navigate the setup menu

The parameter names are shown on row 1 and 2 on the screen. The value is shown on the bottom row. Use the "P" button to browse in the parameter list.

Change parameter values

The "+" button increases a numeric value and is used for toggling ON/OFF functions. The hidden button between the "P" button and the "+" button can be used to decrease numeric values.

Leave the setup menu

To leave the menu, push the "START" button.

Technical Information

Machine Type		Drying Cabinet
Product Name		ProLine FC 20
Product No. 3P, 9.45kW electric connection		232001
Product No. 1P, 7.65kW electric connection		232002
Product No. 3P, 12.45kW electric connection		232003
Product No. 1P, 9.45kW electric connection		232004
Warranty		3 years limited
Main Data		
Type		Air vented
Capacity, sets of turnout gear		6
Capacity (dry weight)	lbs / kg	55 / 25
Interior capacity	cu ft / L	73,1 / 2070
Drying capacity	oz/min / g/min	2 / 55
Energy consumption	kWh	6.7
Noise emission	dB(A)	65
Electrical Installation 3P, 9.45kW		
Supply voltage	V	208-240 V, 3P, 60Hz
Electric heating	kW	9.0
Electric fan	kW	0.45
Total effect	kW	9.45
Protection	A	40
Electrical Installation 1P, 7.65kW		
Supply voltage	V	208-240 V, 1P, 60Hz
Electric heating	kW	7.2
Electric fan	kW	0.45
Total effect	kW	7.65
Protection	A	50
Electrical Installation 3P, 12.45kW		
Supply voltage	V	208-240 V, 1P, 60Hz
Electric heating	kW	12.0
Electric fan	kW	0.45
Total effect	kW	12.45
Protection	A	40
Electrical Installation 1P, 9.45kW		
Supply voltage	V	208-240 V, 1P, 60Hz
Electric heating	kW	9.0
Electric fan	kW	0.45
Total effect	kW	9.45
Protection	A	60
Dimensions		
Outer: width x depth x height	in / mm	71 x 31.5 x 77 / 1800 x 800 x 1955
Weight		
Weight	lbs / kg	441 / 200
Ventilation		
Outlet exhaust	Ø in / mm	6 / 152
Outlet air flow	cfm / m³/h	210 / 350
Pressure drop, max	psf / Pa	4.4 / 210
Maximum air flow (at 0% pressure)	cfm / m³/h	383 / 650

Parameter list

Parameter	Alternative	Factory position
SOFTWARE VERSION	-	[version name]
RESET	YES	-
STANDBY	ON/OFF	ON
TEMPERATURE PR1	86-176°F / 30-80°C	176°F / 80°C
TEMPERATURE PR2	86-176°F / 30-80°C	176°F / 80°C
TEMPERATURE PR3	86-176°F / 30-80°C	140°F / 60°C
TEMPERATURE PR4	86-176°F / 30-80°C	176°F / 80°C
TEMPERATURE REACTIVATION	86-176°F / 30-80°C	176°F / 80°C
HYSTERESIS	34-50°F / 1-10°C	50°F / 10°C
HYSTERESIS REACTIVATION	34-50°F / 1-10°C	37°F / 3°C
COOL DOWN	5-15min	15min
ΔF STOP AUTOMATIC DRYING	-50 % -> +50 %	0
MEMBRANE PR1	ON/OFF	ON
WITHOUT MEMBRANE PR2	ON/OFF	ON
STATIONWEAR PR3	ON/OFF	ON
TIMED DRYING PR4	ON/OFF	ON
REACTIVATION TIME PR 1	0:00h-1:00h	0:30h
REACTIVATION TIME PR2	0:00h-1:00h	0:30h
REACTIVATION TIME PR3	0:00h-1:00h	0:00h
MAXIMUM TIME	0:30h-10:00h	5:00h
DELAY START	ON/OFF	OFF
CHILD LOCK	ON/OFF	OFF
SOUND	ON/OFF	ON
LOGOTYPE	ON/OFF	ON
LANGUAGE	SVENSKA/NORSK/DANSK/ ENGLISH/FRANCAIS/ DEUTSCH/ESPAÑOL/SUOMI	ENGLISH
COIN	ON/OFF	OFF
COIN SIGNAL TYPE	NORMALLY OPENED/ NORMALLY CLOSED/PULSE	NORMALLY OPENED
OPERATING HOURS	-	00000h
ERROR LOG	-	EMPTY

Explanation of parameters

SOFTWARE VERSION

The name of the installed software file is shown.

RESET

Only shown if any parameter's default value has been changed. If option "YES" is pushed, all the parameters are reset to their factory position.

TEMPERATURE PR1

Setting of the drying temperature for program MEMBRANE.

TEMPERATURE PR2

Setting of the drying temperature for program WITHOUT MEMBRANE.

TEMPERATURE PR3

Setting of the drying temperature for program STATIONWEAR.

TEMPERATURE PR4

Setting of the drying temperature for program TIMED DRYING.

TEMPERATURE REACTIVATION

Setting of the drying temperature for the reactivation phase. During this phase the evacuation fan is switched off. The temperature inside the cabinet increases in order to improve the hardening of impregnation solvents.

HYSTERESIS

Controls the hysteresis. FC 20 is preset to 50 °F /10 °C. When the working temperature is attained the heating elements are turned off. When the temperature has dropped 50 °F /10 °C the heating starts again.

HYSTERESIS REACTIVATION

Controls the hysteresis during the reactivation phase.

COOL DOWN

After the heating phase and the reactivation phase (if activated) the cabinet has a period of cool down to recondition the laundry and lower the temperature within the cabinet.

ΔF STOP AUTOMATIC DRYING

Adjusts the automatic drying function. Can be changed if needed. If the value is decreased (negative %-value), the drying time is prolonged for all automatic programs.

MEMBRANE PR1

Turns the MEMBRANE program ON/OFF in user mode.

WITHOUT MEMBRANE PR2

Turns the WITHOUT MEMBRANE program ON/OFF in user mode.

STATIONWEAR PR3

Turns the STATIONWEAR program ON/OFF in user mode.

TIMED DRYING PR4

Turns the TIMED DRYING program ON/OFF in user mode.

REACTIVATION TIME PR1

Decides the duration of the reactivation phase for program MEMBRANE. If the time is set to 0:00h the program skips to cool down immediately after the drying phase is finished.

REACTIVATION TIME PR2

Decides the duration of the reactivation phase for program WITHOUT MEMBRANE. If the time is set to 0:00h the program skips to cool down immediately after the drying phase is finished.

REACTIVATION TIME PR3

Decides the duration of the reactivation phase for program STATIONWEAR. If the time is set to 0:00h the program skips to cool down immediately after the drying phase is finished.

MAXIMUM TIME

Controls the maximum time that can be set at timed drying. The parameter also controls the maximum drying time for the automatic programs.

DELAY START

This parameter activates delayed start. If the parameter is set to "ON" the user is given the choice to delay the program start with up to 24:00h.

CHILD LOCK

It is possible to activate a child lock function. When set to "ON" the user has to press and hold the "P" button while pushing start.

SOUND

In mode "ON" there is a beep sound every time an active button is pushed or when a drying program is finished.

LOGOTYPE

Turns the PODAB-logo, shown on the welcome screen, ON/OFF.

LANGUAGE

The cabinet has seven languages.

COIN

The cabinet can be connected to a booking system. To activate the function, set the parameter in position "ON". To start a program a signal to the COIN plinth is needed.

COIN SIGNAL TYPE

This parameter is only visible if COIN is activated. COIN is used when the cabinet is connected to a booking system. Choose position depending on which type of signal the booking system is sending.

NORMALLY OPENED should be chosen when there is a signal to the COIN plinth when the cabinet has been booked. A running program will finish even if the signal is interrupted.

NORMALLY CLOSED should be chosen when there is a signal to the COIN plinth when the cabinet has not been booked.

PULSE means that the cabinet is booked per drying period. One pulse gives one drying period.

OPERATING HOURS

The parameter shows the total amount of hours the cabinet has been running. Saved on the memory unit even if the power to the control board is cut.

ERROR LOG

Error messages are memorized in a log. If the log is empty the screen shows the text "EMPTY". If there are messages that have been logged it is possible to toggle with the P button. When all errors have been displayed the log can be cleared.

Error messages

TEMP SENSOR FAILURE

The control board gets no signal from the temperature sensor. The cabinet is out of function until the error is solved. Check if the sensor is connected correctly on the main control board, and that the cable from the sensor to the board is intact.

MAX TEMP REACHED

If the temperature registered by the temperature sensor rises above 212 °F / 100°C a cool down period starts. The heat is re-activated when the temperature has dropped to 122 °F / 50°C.

OVERHEATING

The control board's electronically overheat protection has been activated. The error code is generated if the temperature registered by the temperature sensor rises above 212 °F / 100°C, twice within 30 minutes.

Control that the fan motors are working as they should. Also control the temperature sensor and that the cable from the board is intact.

MAX TIME REACHED

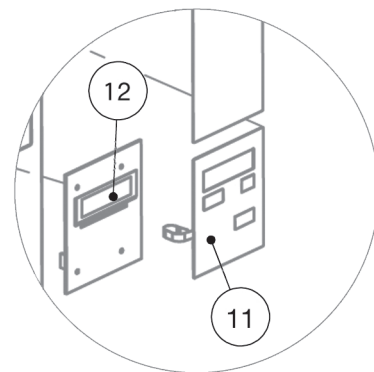
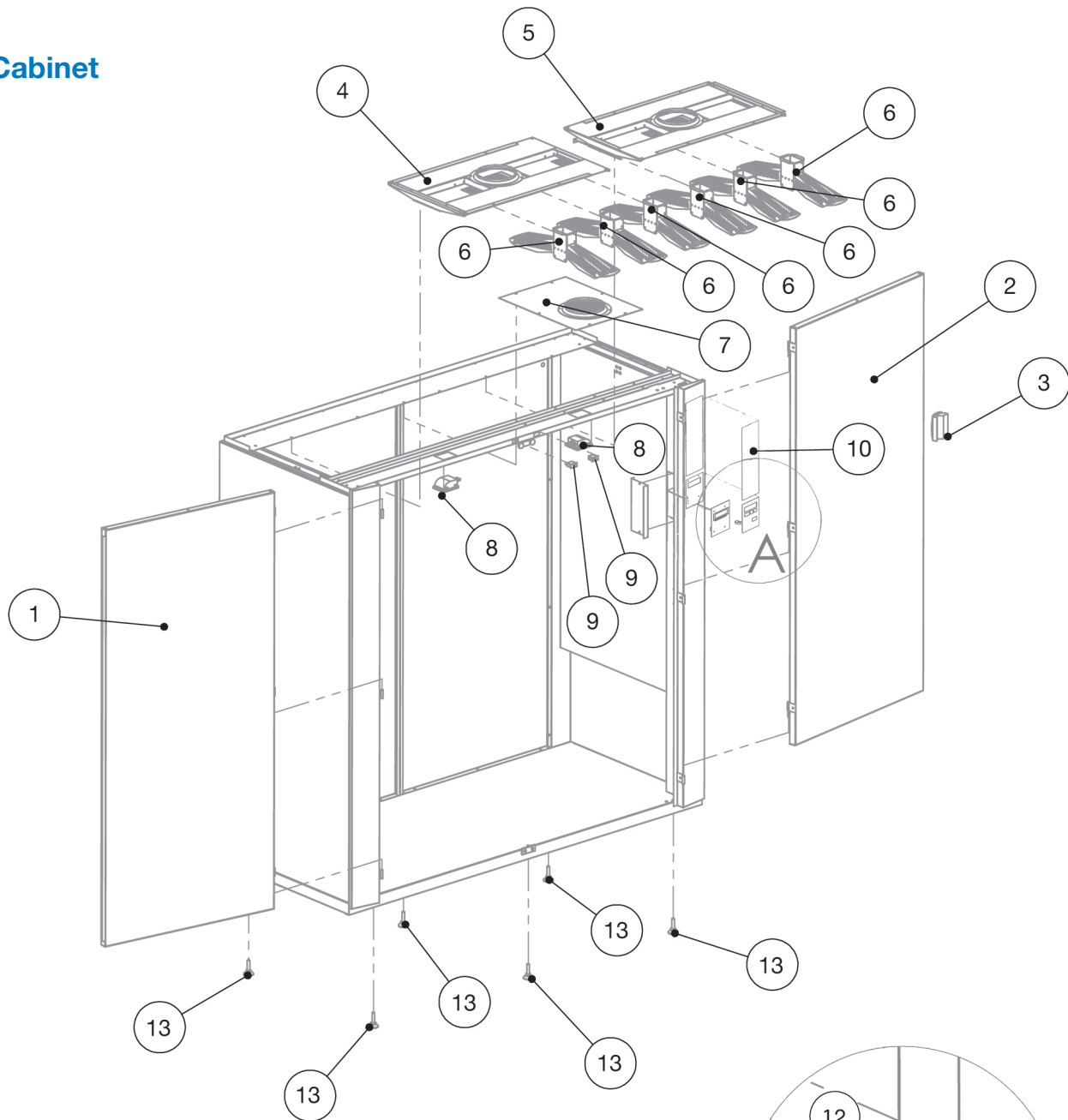
This code is generated if the maximum drying time of 5h (default) is reached. The drying time can exceed the limit if the cabinet is over loaded or if the textiles has a very high residual moisture level when the program starts. If desired the maximum time can be adjusted.

HUMIDITY SENSOR

Control board gets no signal from the temperature sensor. Control that the sensor is connected correctly on the main control board and that the cable from the sensor to the board is intact.

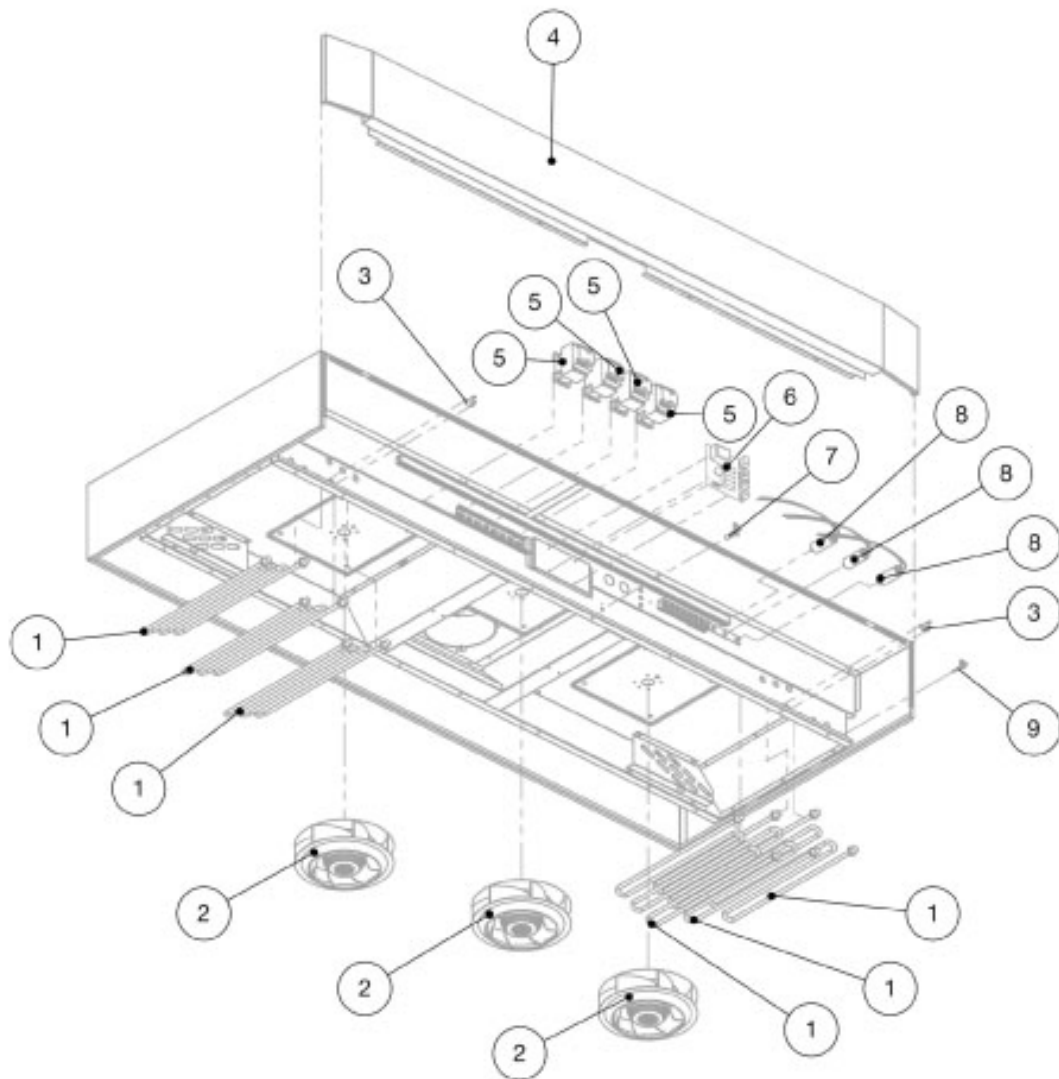
Spare parts list

Cabinet



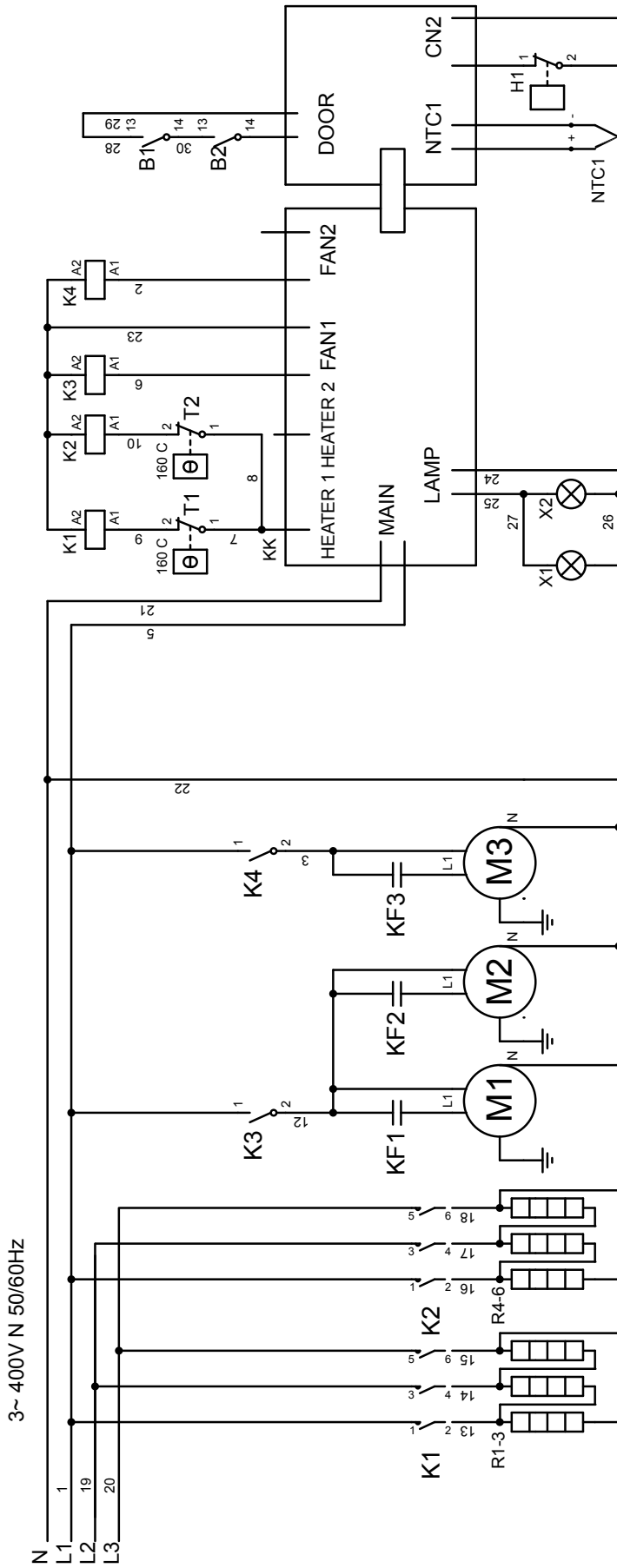
Detailed view A

No	Part No	Description
1	TS61053	Door left
2	TS61054	Dor right
3	TS 61086	Handle
4	TS61055	Hanger frame left
5	TS61056	Hanger frame right
6	TS61057	Hanger
7	TS61058	Service door (middle fan)
8	TS 61081	Lamp
9	70107001	Door switch
10	011070	Sticker user instructions
11	0110166	Keypad
12	0110161	Display control board
13	TS61094	Foot



No	Part No	Description
1	TS 61080	Heater 2000 W
2	E 150020	Fan motor
3	TS61028	Overheat protection 320°F/160°C
4	TS61052	Front panel
5	TS61062	Contactor LC1-K0610M72
6	0110160	Relay board
7	0110174	Humidity sensor
8	TS 61083	Condensator
9	0110165	Temperature sensor

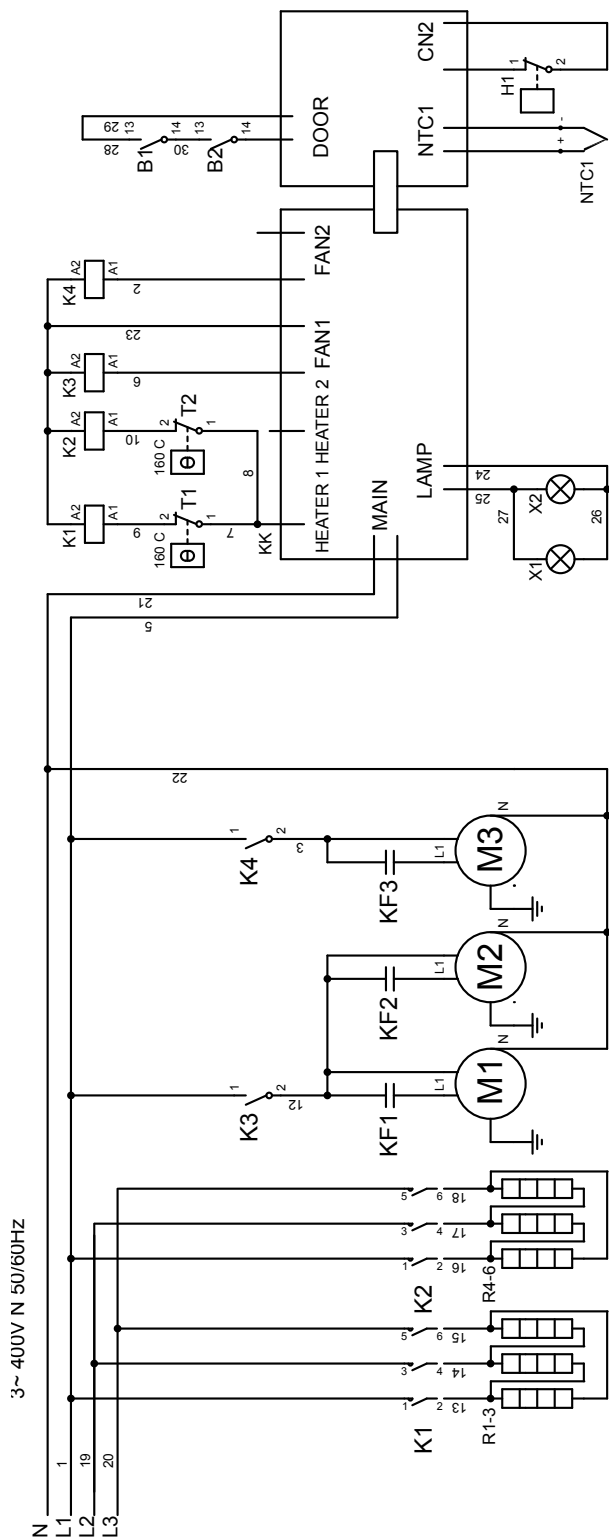
Electric drawing



B2	Door switch 2
X1	Lamp 1
X2	Lamp 2
H1	Humidity sensor
NTC1	Thermostat
R1-R3	Heat element 1-3
R4-R6	Heat element 4-6
T1	Over heat protection 1
T2	Over heat protection 2
KK	Circuit board

M1	Fan motor 1
M2	Fan motor 2
M3	Fan motor 3
KF1	Capacitor 1
KF2	Capacitor 2
KF3	Capacitor 3
K1	Heat contactor 1
K2	Heat contactor 2
K3	Fan contactor 1
K4	Fan contactor 2
B1	Door switch 1

Electric drawing

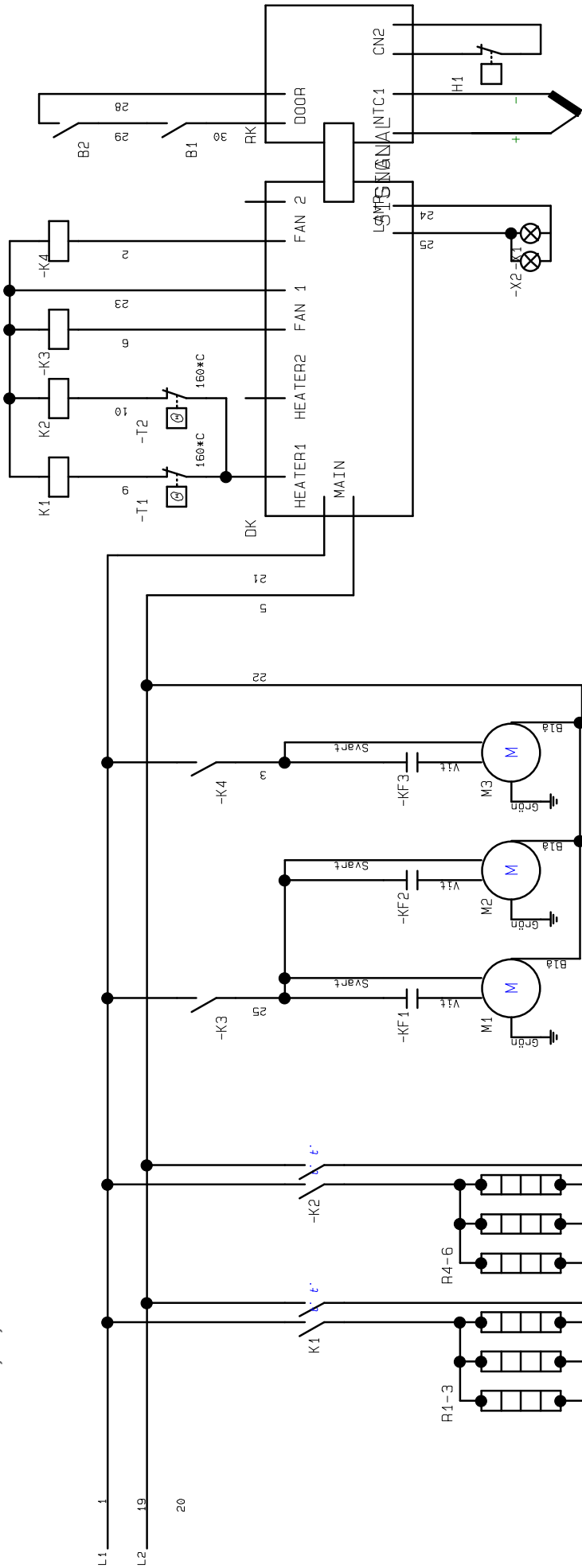


B2	Door switch 2
X1	Lamp 1
X2	Lamp 2
H1	Humidity sensor
NTC1	Thermostat
R1-R3	Heat element 1-3
R4-R6	Heat element 4-6
T1	Over heat protection 1
T2	Over heat protection 2
KK	Circuit board

M1	Fan motor 1
M2	Fan motor 2
M3	Fan motor 3
KF1	Capacitor 1
KF2	Capacitor 2
KF3	Capacitor 3
K1	Heat contactor 1
K2	Heat contactor 2
K3	Fan contactor 1
K4	Fan contactor 2
B1	Door switch 1

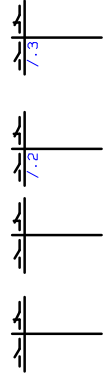
Electric drawing

208-240V, 1P, 60Hz



B2	Microbrytare dörr 2	Door switch 2	Interrupteur porte 2
X1	Lampa 1	Lamp 1	Lampe 1
X2	Lampa 2	Lamp 2	Lampe 2
H1	Fuktensor	Humidity sensor	Hygromètre
NTC1	Termostat	Thermostat	Thermostat
R1-R3	Element 1-3	Heat element 1-3	Chauffage 1-3
R4-R6	Element 4-6	Heat element 4-6	Chauffage 4-6
T1	Överhettningsskydd 1	Over heat protection 1	Protection surchauffe 1
T2	Överhettningsskydd 2	Over heat protection 2	Protection surchauffe 2
KK	Kretskort	Circuit board	Platine de circuité

M1	Fläkt motor	Fan motor 1	Ventilateur 1
M2	Fläkt motor	Fan motor 2	Ventilateur 2
M3	Fläktmotor 3	Fan motor 3	Ventilateur 3
KF1	Kondensator 1	Capacitor 1	Condensateur 1
KF2	Kondensator 2	Capacitor 2	Condensateur 2
KF3	Kondensator 3	Capacitor 3	Condensateur 3
K1	Kontaktor värme 1	Heat contactor 1	Contacteur chaleur 1
K2	Kontaktor värme 2	Heat contactor 2	Contacteur chaleur 2
K3	Kontaktor fläkt 1	Fan contactor 1	Contacteur fan 1
K4	Kontaktor fläkt 2	Fan contactor 2	Contacteur fan 2
B1	Microbrytare dörr 1	Door switch 1	Interrupteur porte 1



SERVICE/SUPPORT

Email: support@podab.us

Support telephone: +1 (800) 683-4873

www.podab.us



PODAB Inc.
1330 Main Street , Floor 2
Sarasota, FL 34236, USA
info@podab.us
www.podab.us
+1 (800) 683-4873